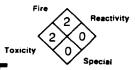
Superfund Records Center
SITE: SUTTOTA TROOK
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OTHER: 18789

E



WD-40



MATERIAL SAFETY DATA SHEET

NFPA

I. PRODUCT IDENTIFICATION

Manufacturer:

WD-40 Company

Address:

1061 Cudahy Place (92110)

P.O. Box 80607

San Diego, California

92138-9021

Emergency Telephone: Chemical Name:

(619) 275-1400

Organic Mixture

Trade Name:

WD-40 Aerosol

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	%	Exposure Limit ACGIH/OSHA
Aliphatic Petroleum Distillates	8052-41-3	50	100 ppm (PEL)
A-70 Hydrocarbon Propellant	68476-85-7	25	1000 ppm (PEL)
Petroleum Base Oil	8012-95-1	> 15	5 mg/M³ (TWA)
Corrosion Inhibitor	Proprietary Mixture	< 10	5 mg/M³ (TWA)
Wetting Agent	Proprietary Mixture	< 5	500 ppm (PEL)
Fragrance	Proprietary Mixture	< 5	NDA

III. PHYSICAL DATA

Boiling Point:

Vapor Density: (air = 1)Solubility in Water:

Specific Gravity (H₂0 = 1)

Percent Volatile (volume):

NA

Greater than 1 Insoluble

.710 @ 70°F 80%

Evaporation Rate:

Vapor Pressure: Appearance:

Odor:

Not determined

50 PSI @ 70°F

Light amber

Characteristic odor

IV. FIRE AND EXPLOSION

Flash Point:

Flammable Limits:

Extinguishing Media:

Special Fire Fighting Procedures:

NA to aerosol cans

(propellant portion) [Lel] 1.8% [Uel] 9.5%

CO₂, Dry Chemical

None

Unusual Fire and Explosion Hazards:

Considered "extremely flammable" under Consumer Product

Safety Commission regulations.

V. HEALTH HAZARD INFORMATION

Threshold Limit Value

Aliphatic Petroleum Distillates (Stoddard solvent) lowest TLV (ACGIH 100 ppm.)

Symptoms of Overexposure

Inhaled Vapor: May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation.

Skin Contact: May cause drying of skin and or irritation. May cause irritation, tearing and redness. Eve Contact:

Swallowed: May cause irritation, nausea, vomiting and diarrhea.

Aspiration into Lungs: May cause chemical pneumonitis.

First Aid Emergency Procedures

Swallowed:

Do not induce vomiting, seek medical attention.

Eye Contact:

Immediately flush eyes with large amounts of water for 15 minutes.

Skin Contact: Wash with soap and water.

Inhaled: '

Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give

oxvgen.

Suspected Cancer Agent

Yes____ No_ X

The components in this mixture have been found to be noncarcinogenic

by IARC and NTP.

Stability: Conditions to avoid:	NA	ole X_	Unstable			
Incompatability:		ng oxidizing n	naterials			
Hazardous decomposition products: Hazardous polymerization:	NA May	occur	Will not occur X			
VII. SPILL OR LEAK PROCEDUR			VVIII TIOC GGGGIIX			
Spill Response Procedures Spill unlikely from aerosol cans. Leakin dissipated. Waste Disposal Method Empty aerosol cans should not be pund buried in land fill.	g cans should be place					
VIII. SPECIAL HANDLING INFORI	MATION	· · · · · · · · · · · · · · · · · · ·				
Ventilation:	Sufficient to ke	ep solvent var	por less than TLV.			
Respiratory Protection:	None required.	None required.				
Protective Gloves:	None required.					
Eye Protection: None required.						
Other Protective Equipment:	None required.					
IX. SPECIAL PRECAUTIONS						
Keep from sources of ignition, do not tak puncture, incinerate or store container at		cessive inhala	tion of spray particles. Do not			
X. TRANSPORTATION DATA						
Domestic Surface						
Description: Consumer Commodity						
Hazard Class: ORM-D						
ID No.: NONE	DDM DV					
Label Required: Consumer Commodity (C	טרואו-ט)					
Domestic Air						
Description: Consumer Commodity (F Hazard Class: ORM-D	Flammable Gas-Aeros	ol products)				
ID No.: NONE Label Required: Consumer Commodity (ORM-D-AIR)						
	- · · · · · · · · · · · · · · · · · · ·					
\supset .						
SIGNATURE: R. Miles	les TITIF	: Te	echnical Director			

SIGNATURE: R. Miles

TITLE: Technical Director

REVISION DATE: April 1986

SUPERSEDES: December 1985

NA = Not applicable

NDA = No data available

> = Less than

> = More than

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the users responsibility both to determine safe conditions for use of this product and assume loss, damage or expense, direct or consequential, arising from its misuse. Before using product, read label.

Form Approved Budget Bureau No. 44-R1387 Approval Expires

U.S. DEPARTMENT OF LABOR



WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION 1

MANUFACTURER'S NAME The White & Bagley Company EMERGENCY TELEPHONE NO. 617-791-3201						
ADDRESS (Number, Street, City, State, and ZIP Code) 150 Worcester Center Blvd., Worcester, Mass. 01608 617-987-2217 E.F. Ahern (night)						
CHEMICAL NAME AND SYNONYMS NA (Not Applicable) TRADE NAME AND SYNONYMS W&B Grinding Concentrate 1500						
CHEMICAL FAMILY NA		<u> </u>	FORMULA NA	<u> </u>		
147			1113	-	لـــــــــــــــــــــــــــــــــــــ	
* 1 A	<u> </u>		是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个			
PAINTS, PRESERVATIVES, & SOLVENTS	*	TLV (Units)	ALLOYS AND METALLIC COATINGS	*	TLV (Units)	
PIGMENTS			BASE METAL			
CATALYST			ALLOYS			
VEHICLE			METALLIC COATINGS			
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX			
ADDITIVES			OTHERS			
OTHERS						
HAZARDOUS MIXTURE	ES OF C	THER LIQ	UIDS, SOLIDS, OR GASES	*	TLV (Units)	
		No	ne			
				7		
BOILING POINT (F.) equiv.	to v	water	SPECIFIC GRAVITY (H ₂ O=1)	—	1.3	
VAPOR PRESSURE (mm Hg.) equiv.	to v	vater	PERCENT VOLATILE BY VOLUME (%)		57	
VAPOR DENSITY (AIR=1) approx	approx. 2 EVAPORATION RATE (Water =1)				1	
SOLUBILITY IN WATER						
APPEARANCE AND ODOR CONCENTRATE: yellow-orange liquid - odor cinnamon diluted; green colored solution. No characteristic odor						
	•	5-196		े र		
FLASH POINT (Method used)	*		FLAMMABLE LIMITS Lel		Uel	
N.	<u> </u>		NA	土		
EXTINGUISHING MEDIA NA						
SPECIAL FIRE FIGHTING PROCEDURES NA						
UNUSUAL FIRE AND EXPLOSION HAZARDS Residue-laden cloths should be discarded in proper						
ma	nner	. Resi	dues increase combustibility.			

			0				
					5		
THRESHOLD LIMIT VA	ιυε (diluted fo	orm)No	t listed b ts whi	y ACGIH*. ; ch is a visib	Suggest i	ising 5 mg/cu ntration	. meter
EFFECTS OF OVEREXPE	OSURE						
	None kno	own	 -				
EMERGENCY AND FIRS			in. Mach	off with son			
			-	off with soa with water t			
*3		Ey				nutes	
*American C	Conference of	Gover	nmental I	ndustrial Hy	gienists		
		The state of the s					
S STABILITY	UNSTABLE	****	CONDITIONS	TO AVOID	Mark To	4-3	2.06
		7,					
INCOMPATABILITY (M	STABLE	X					w
HAZARDOUS DECOMP		Oi.	l; Minera	l Acids			
HAZARDOUS DECOMP	OSITION PRODUCTS	Ox	cides of n	itrogen if mi	neral aci	ds are added	
HAZARDOUS	MAY OCCUR			CONDITIONS TO A	V0ID		
POLYMERIZATION	WILL NOT OC	CUR	Х				
8					· · · · · · · · · · · · · · · · · · ·		
	A.			20 30 A 10 A		•	,
		. 7			Maria de la companya		
STEPS TO BE TAKEN I	N CASE MATERIAL IS	RELEASED	OR SPILLED				
	F	lush w	ith water	and absorb			
WASTE DISPOSAL MET	rhop Dilute wi	th larg	e amount	s of water ar	nd dispos	e in accordanc	٠,
	with foca.	ı, stat	e and red	eral regulati	ons.		
RESPIRATORY PROTECT	TION (Specify type)		•		_		<u> </u>
<u> </u>	LOCAL EXHAUST		None		SPECIAL		
VENTILATION							
	MECHANICAL (Gene	era()	Yes		OTHER		
PROTECTIVE GLOVES	<u> </u>	No .		Goggles who	en disper	sing concentr	ate
OTHER PROTECTIVE	EQUIPMENT	No					
			•				
g	•						
PRECAUTIONS TO BE	TAKEN IN HANDLING	AND STO	RING				
Sto	re away from	area w	here min	eral acids ar	e stored		
OTHER PRECAUTIONS							
						RECEI MAR 10	V L
						11.5.1.2	1983
					1	MAR 1 U	



THE WHITE & BAGLEY COMPANY

WORCESTER * MASS.

W&B GRINDING CONCENTRATE 1500

TECHNICAL DATA

W&B Grinding Concentrate 1500 is a concentrated water solution of mild organic amines and inorganic materials selected for their rust inhibiting and cooling properties.

Weight per gallon

10.65 lbs.

Viscosity

Watery fluid

Flash point

Non-flammable

Sulfates

None

Sulfur

None

Chlorine

None

Fat

None

pH (1% solution)

Approximately 9.6

Foam tendency (1% solution)

Nil

Storage stability

Stable at all temperatures

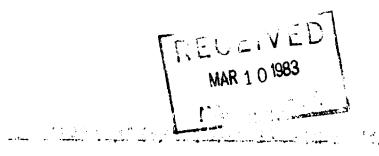
down to -20°F

Resistance to bacterial decomposition

Inert

F-3-25-74

(supersedes F-5-21-64-3)



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5.70%

in tendency (IN s latter) . This

gramage stability Sutble at all temperature :



coolant for grinding sec. D

W&B Grinding Concentrate 1500

application

For grinding ferrous metals and titanium, not recommended

with aluminum or yellow metals.

description

A chemical-type, water-soluble coolant concentrate which

mixes with water to form a light-green transparent solution.

advantages

promotes keen grinding action

assures exceptional accuracy with high production

keeps wheels open with less wheel dressing

provides excellent rust protection

settles chips rapidly

keeps machines and parts clean

mixes instantly with either hard or soft water

non-foaming

has exceptional stability in storage

forms a very long-lasting, "sweet" solution

stays free from odors non-irritating to the skin

parts are easy to handle - not slippery remains clear over a long period of time

very economical to use

mixing directions

for grinding steel

100 to 150 parts water to 1 part 1500

for grinding cast iron

80 to 100 parts water to 1 part 1500 (may produce ammonia odor if cast iron chips are not removed from coolant tank frequently).

for grinding titanium

10 parts water to 1 part 1500

THE WHITE+BAGLEY CO. 3

WORCESTER · MASS ·

Rev. 2-23-66

TRW-02714

TRECEIVE MAR 10 1983

SECTION I - MANUFACTURERS INFORMATION

PRODUCT CODE IDENTITY: 8298310 380 PRODUCT NAME : MALESSON BLACK HI-SELEDS

NAME : COOK PAINT AND VARNISH COMPANY ADDRESS: P.O. BOX 419389 DATE OF MSDS: 11/07/86 NAME

KANSAS CITY. MO **EMERGENCY TELEPHONE:** 816-391-6000 64141-6389 816-391-6003 INFORMATION TELEPHONE:

ATTN: SAFETY AND HEALTH OFFICER TRW INC FASTENERS DIV 265 THIRD STREET

CAMBRIDGE MA 02142 CUSTOMER NUMBER: 543462 DATE PRINTED: 08/10/87

DATE PRINTED:

SECTION II - HAZARDOUS INGREDIENTS

BUTYL ALCOHOL

VAPOR PRESSURE: CAS #: 71-36-3 PERCENT: 5-000 4.0

EXPOSURE LIMIT: ACGIH TLY/TWA: 50 PPN (150 MG/CU-M-) SKIN. CEILING

100 PPM OSHA PEL: (300 MG/CU.M.)

TOLUENE

CAS #: 108-88-3 PERCENT: LESS THAN 5 VAPOR PRESSURE: 22.0

EXPOSURE LIMIT:

ACGIH TLY/TWA: 100 PPN (375 MG/CU.M.) ACGIH TLY/STEL: 150 PPM (560 MG/CU.M.) 200 PPM (750 MG/CU.M.) 300 PPM (1120 MG/CU.M.) OSHA PEL: DSHA PEL/CEILING: 500 PPM PEAK OTHER: OSHA:

CARBON BLACK

CAS #: 1333-86-4 PERCENT: LESS THAN 5 **VAPOR PRESSURE:** N/A

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: 3.5MG/CU.M. 7MG/CU.M. OSHA PEL: 3.5MG/CU.M.

CARBON BLACK

CAS #: 1333-86-4 PERCENT: LESS THAN 5 **VAPOR PRESSURE:** N/A

EXPOSURE LIMIT: ACGIH TLV/TWA: 3.5MG/CU.M.

OSHA PEL: 3.5MG/CU.M.

BARIUM SULPHATE

CAS #: 7727-43-7 PERCENT: 5.000 **VAPOR PRESSURE:** N/A

EXPOSURE LIMIT: ACGIH TLV/TWA: 10MG/CU.M.

TALC (HYDROUS MAGNESIUM SILICATE)

CAS #: 14807-96-6 PERCENT: 5.000 **VAPOR PRESSURE:** N/A

EXPOSURE LIMIT: 2 MG/CU.M. (RESPIRABLE DUST) 20 M PPCF ACGIH TLV/TWA:

OSHA PEL:

SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC

CAS #: 64742-95-6 PERCENT: 10.000 **VAPOR PRESSURE:** 3.0

> EXPOSURE LIMIT: ACGIH TLV/TWA: NONE ESTABLISHED

PRODUCT NAME: WAIZEN848 BLACK HI-SOLIDS PRODUCT CODE IDENTITY: 8298310 380

> OSHA PEL: OTHER:

NONE ESTABLISHED

TLV/TWA: 100 PPM. ESTIMATED

SILICA, AMORPHOUS

CAS #: 7631-86-9 PERCENT: 5.000 VAPOR PRESSURE: N/A

EXPOSURE LIMIT: ACGIH TLV/TWA:

5 MG/CU.M. RESPIRABLE DUST, 10MG/CU.M. TOTAL DUST

OSHA PEL: 20M PPCF AS DUST

I SOPROPYL ALCOHOL

CAS #: 67-63-0 PERCENT: LESS THAN 5 VAPOR PRESSURE: 33.0

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: 400 PPM (980 MG/CU.M.) 500 PPM (1225 MG/CU.M.) 400 PPM (980 MG/CU.M.)

OSHA PEL:

METHYL ETHYL KETONE

CAS #: 78-93-3 PERCENT: LESS THAN 5 VAPOR PRESSURE: 71.0

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: 200 PPM (590 MG/CU.M.) 300 PPM (885 MG/CU.M.) 200 PPM DSHA PEL: (590 MG/CU-M-)

SECTION III - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE TO PRODUCT. PRIMARY ROUTES OF ENTRY ARE:

LIQUID AND VAPOR CAN BE IRRITATING TO EYES. SYMPTOMS ARE EYE CONTACT:

TEARING. REDNESS AND DISCOMFORT.

CAN CAUSE IRRITATION. LEAD TO DERMATITIS. CAN CAUSE DEFATTING OF SKIN WHICH CAN SKIN CONTACT:

ANESTHETIC. OVEREXPOSURE CAN CAUSE IRRITATION TO UPPER RESPIRATORY TRACT. CONTINUED OVEREXPOSURE CAN LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PRO-GRESSIVE STEPS IF SEVERE OVEREXPOSURE IS CONTINUED: DIZZINESS. NAUSEA AND LOSS OF CONSCIOUSNESS. HEADACHE.

REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCEN-TRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

INGESTION:

INHALATION:

SWALLOWING CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA,

VOMITING AND DIARRHEA.

MEDICAL CONDITIONS PROME TO AGGRAVATION BY EXPOSURE: PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES:

IN CASE OF EYE CONTACT. FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION; FOR SKIN, WASH THOROUGHLY WITH SDAP AND WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING. THOROUGHLY CLEAN CONTAMINATED SHOES. IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLDWED. GET MEDICAL AT-TENTION.

SECTION IV - PHYSICAL DATA

BOILING POINT. DEG. F. 175

VAPOR DENSITY IS HEAVIER THAN AIR

PRODUCT CODE IDENTITY: 8298310 380 PRODUCT NAME: WA12EN848 BLACK HI-SOLIDS

WEIGHT PER GALLON: 9.72 EVAPORATION RATE IS SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 39.820

SECTION V - FIRE AND EXPLOSION HAZARD DATA

OSHA FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID CLASS IB

FLASH POINT SETA CLOSED CUP. DEG F: 23

DOT HAZARD CLASS: RED-LABEL, FLAMMABLE LIQUID

LEL: 1.00

EXTINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

VAPORS MAY CAUSE FLASH FIRE. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT. ELECTRICAL EQUIPMENT. SPARKS AND FLAME. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

IF APPLIED IN CONFINED AREAS AND TANKS. USE ONLY EXPLOSION-PROOF AND PROPERLY GROUNDED EQUIPMENT. SPARK-PROOF TOOLS AND SPARK-PROOF SHOES.

SPECIAL FIRE FIGHTING PROCEDURES:
FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED. FOG NOZZLES ARE PREFERABLE. WATER NAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT

SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: NONE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: ELEVATED TEMPERATURES.

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG ACIDS AND STRONG OXIDIZING AGENTS. IF THIS PRODUCT IS NOT WATER REDUCIBLE, AVOID WATER.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES CONTAINING DRGANIC ACIDS. CARBON DIOXIDE AND CARBON MONOXIDE.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC,
OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND
REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

DO NOT BREATHE VAPORS OR SPRAY MIST. WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) DURING APPLICATION AND OTHER USE OF THIS PRODUCT UNTIL VAPORS AND MISTS ARE EXHAUSTED, UNLESS AIR MONITORING DEMON-STRATES VAPOR AND MIST LEVELS ARE BELOW APPLICABLE LIMITS. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. USE APPROVED CHEMICAL/MECHAN—ICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPORS. IN CONFINED AREAS, USE APPROVED AIR SUPPLIED RESPIRATORS OR HOODS. OBSERVE OSHA STANDARD 29CFR 1910.134.

PRIDUCT CODE IDENTITY: 8298310 380 PRODUCT NAME: WAIZEN848 BLACK HI-SOLIDS

VENTILATION:

PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS IN THE MIXING, APPLICATION AND CURING AREAS; AND TO REMOVE DECOMPOSITION PRODUCT DURING WELDING AND FLAME CUTTING ON SURFACES COATED WITH THIS PRODUCT. IN CONFINED AREAS, USE ONLY WITH FORCED VENTILATION ADEQUATE TO KEEP VAPOR CONCENTRATION BELOW 20% OF LOWER EXPLOSION LIMITS. REFER TO DSHA STANDARDS 29CFR 1910.94. 1910.107. 1910.105.

HEAVY SOLVENT VAPORS SHOULD BE REMOVED FROM LOWER LEVELS OF THE WORK AREA NOTE AND ALL IGNITION SOURCES (NONEXPLOSION-PROOF MOTORS, ETC.) SHOULD BE ELIMINATED.

PROTECTIVE GLOVES: USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT

EYE PROTECTION:

AVOID CONTACT WITH EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS. CHEMICAL GOGGLES. FACE SHIELDS.

OTHER PROTECTIVE EQUIPMENT:
AVOID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH
CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED
TO COMPLY WITH OSHA 1910.106. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP
CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS:

TER PRECAUTIONS:
CONTAINERS SHOULD BE GROUNDED WHEN POURING. DO NOT TAKE INTERNALLY. WASH
HANDS AFTER USING AND BEFORE SMOKING OR EATING. EMPTIED CONTAINERS MAY RE—
TAIN HAZARDOUS RESIDUE AND EXPLOSIVE VAPORS. KEEP AWAY FROM HEAT, SPARKS AND
FLAMES. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR EMPTIED CONTAINERS. FOLLOW
ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY
CLEANED OR DESTROYED. IF THIS PRODUCT IS BLENDED WITH OTHER COMPONENTS SUCH
AS THINNERS, CONVERTER, COLORANTS AND CATALYSTS PRIOR TO USE, READ ALL WARN—
ING LABELS. ANY MIXTURE OF COMPONENTS WILL HAVE HAZARDS OF ALL COMPONENTS.
FOLLOW ALL PRECAUTIONS. IF SPRAYING THIS MATERIAL, KEEP SPRAY BOOTHS CLEAN.
AVOID BUILDUP OF SPRAY DUST OR OVERSPRAY IN BOOTHS OR DUCTS.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

DISCLAIMER AND LIMITATION OF LIABILITY

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. TO THE EXTENT ALLOWED BY LAW. THIS STATEMENT IS MADE IN LIEU OF ANY OTHER WARRANTIES. EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND IS IN LIEU OF ANY OTHER OBLIGATIONS OR LIABILITY ON THE PART OF COOK PAINT AND

VARNISH COMPANY.

COOK PAINT AND VARNISH COMPANY WILL NOT BE LIABLE FOR ANY INCIDENTAL OR

CONSEQUENTIAL DAMAGES. FINAL DETERMINATION OF THE SUITABILITY OF THE MATERIAL

FOR THE USE CONTEMPLATED, THE MANNER OF USE, AND WHETHER THE SUGGESTED USE INFRINGES ANY PATENT IS THE SOLE RESPONSIBILITY OF THE BUYER.

TRW-02719

PAGE 01

MATERIAL SAFETY DATA SHEET

SECTION I - MANUFACTURERS INFORMATION

DATE OF MSDS: H 100

PRODUCT NAME: WALZENSESO RED. SLAVE MAL

02/03/89

INFORMATION TELEPHONE: 816-391-6003

ATTN: SAFETY AND HEALTH OFFICER TRW INC FASTENERS DIV 265 THIRD STREET

CAMBRIDGE

MA 02142

CUSTOMER NUMBER: 543462 DATE PRINTED: 03/03/89 COMPLEX:

380

N/A

SECTION II - HAZARDOUS INGREDIENTS

CHROMIUM, ANTIMONY TRIOXIDE, TITANIUM DIOXIDE COMPOUND, 4% CHROMIUM (CR) & 10% ANTIMONY (SB)

VAPOR PRESSURE: (MMHG/DEG F) WT. X: LESS THAN 1

CAS #: 068186-90-3

EXPOSURE LIMIT:

ACGIH TLV/TWA: OSHA PEL:

0.5MG/CU.M.AS CHROMIUM III/0.5MG/CU.M. AS ANTIMON' 0.5MG/CU.M. AS ANTIMONY/1.0MG/CU.M. AS CHROMIUM

BARIUM SULPHATE, 59% BARIUM (BA)

CAS #: 007727-43-7

WT. X: 5.000 **VAPOR PRESSURE:** N/A

(MMHG/DEG F)

EXPOSURE LIMIT: ACGIH TLV/TWA:

10 MG/CU.M.

TOLUENE

CAS #: 000108-88-3

WT. X: 5.000 VAPOR PRESSURE: 22.0

(MMHG/DEG F)

EXPOSURE LIMIT:

OTHER:

ACGIH TLV/TWA: ACGIH TLV/STEL:

DSHA PEL: DSHA PEL/CEILING:

150 PPM (560 MG/CU.M.) 200 PPM (750 MG/CU.M.) 300 PPM (1120 MG/CU.M.)

100 PPM (375 MG/CU.M.)

OSHA: 500 PPM PEAK

N-BUTYL ALCOHOL

CAS #: 000071-36-3

WT. X:

5.000

VAPOR PRESSURE: (MMHG/DEG F) 4.0

EXPOSURE LIMIT:

ACGIH TLV/TWA: **OSHA PEL:**

50 PPM (150 MG/CU.M.) 100 PPM (300 MG/CU.M.)

SKIN. CEILING

N-BUTYL ACETATE

CAS #: 000123-86-4

WT. X:

5.000

VAPOR PRESSURE: 8.0

(MMHG/DEG F)

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: OSHA PEL:

150 PPM (710 MG/CU.M.) 200 PPM (950 MG/CU.M.)

150 PPM (710 MG/CU.M.)

PRODUCT CODE IDENTITY: 829A369 PRODUCT NAME: WA12EN9230 MED. SLATE ENL

SOL NT NAPHTHA (PETROLEUM) LIGHT AROMATIC

> VAPOR PRESSURE: (MMHG/DEG F) CAS #: 064742-95-6 WT. X: 10.000 3.0

EXPOSURE LIMIT:

ACGIH TLV/TWA: NONE ESTABLISHED OSHA PEL: NONE ESTABLISHED

OTHER: SUPPLIER RECOMMENDS: TLV/TWA 50 PPM

SILICA. AMORPHOUS

CAS #: 007631-86-9 WT. X: 10.000 VAPOR PRESSURE: N/A

(MMHG/DEG F)

EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M. TOTAL DUST

OSHA PEL: 20M PPCF AS DUST

METHYL ETHYL KETONE

CAS #: 000078-93-3 WT. X: 5.000 VAPOR PRESSURE: 71.0

(MMHG/DEG F)

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: 200 PPM (590 MG/CU.M.) 300 PPM (885 MG/CU.M.)

OSHA PEL: 200 PPM (590 MG/CU.M.)

THIS MATERIAL CONTAINS INGREDIENTS COVERED BY THE CALIFORNIA "SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986" (PROPOSITION 65).

SECTION III - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE TO PRODUCT. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT: SYMPTOMS ARE TEARING. REDNESS AND DISCOMFORT. IRRITATION.

SKIN CONTACT: IRRITATION. CAN CAUSE DEFATTING OF SKIN WHICH MAY LEAD TO

DERMATITIS.

EXTENDED OR REPEATED EXPOSURE INHALATION: IRRITATION TO NOSE AND THROAT. TO CONCENTRATIONS ABOVE THE RECOMMENDED EXPOSURE LIMITS MAY CAUSE BRAIN OR NERVOUS SYSTEM DEPRESSION, CAUSING DIZZINESS, HEADACHE OR NAUSEA AND IF CONTINUED INDEFINITELY, LOSS OF CONSCIOUSNESS, LIVER AND KIDNEY DAMAGE.

REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

CAUSE NOUTH. THROAT, ESOPHAGUS AND STOMACH IRRITATION. INGESTION:

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT:
PREEXISTING EYEW SKING LIVER, KIDNEY AND RESPIRATORY DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES:

IN CASE OF EYE CONTACT. FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION; FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED. GET MEDICAL ATTENTION IMMEDIATELY.

OTHER HEALTH HAZARDS: ROMIUM, ANTIMONY TRIOXIDE, TITANIUM DIOXIDE COMPOUND CONTAINS TRIVALENT PRODUCT CODE IDENTITY: 829A369

PRODUCT NAME: WAIZEN9230 MED. SLATE ENL

NCER (IARC) AS "NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS"
ROUP 3) AND BY THE NATIONAL TOXICITY PROGRAM (NTP) AS A HUMAN CARCINOGEN
(CLASS A). ANTIMONY TRIOXIDE IS NOT LISTED AS A CARCINOGEN BY IARC, NTP AND
OSHA; HOWEVER, LONG TERM INHALATION STUDIES INDICATE ANTIMONY TRIOXIDE CAUSES
MALIGNANT LUNG TUMORS IN LABORATORY RATS. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE

SECTION IV - PHYSICAL DATA

BOILING POINT.DEG.F. 175

VAPOR DENSITY IS HEAVIER THAN AIR

WEIGHT PER GALLON:

EVAPORATION RATE IS SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 41.518

SECTION V - FIRE AND EXPLOSION HAZARD DATA

DSHA FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID CLASS

FLASH POINT SETA CLOSED CUP, DEG F:

DOT HAZARD CLASS: RED-LABEL, FLAMMABLE LIQUID

LEL: 1.00

EXTINGUISHING MEDIA: FOAM. CARBON DIDXIDE, DRY CHEMICAL. WATER FOG.

FIRE AND EXPLOSION HAZARDS: UNUSUAL

VAPORS MAY CAUSE FLASH FIRE. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT. ELECTRICAL EQUIPMENT. SPARKS AND FLAME. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

APPLIED IN CONFINED AREAS AND TANKS. USE ONLY EXPLOSION-PROOF AND PROPERLY OUNDED EQUIPMENT. SPARK-PROOF TOOLS AND SPARK-PROOF SHOES.

SPECIAL FIRE FIGHTING PROCEDURES:

FILL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED. FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: NONE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: ELEVATED TEMPERATURES.

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG ACIDS AND STRONG OXIDIZING AGENTS.

INCOMPATIBLE...
STRONG ACIDS AND STRONG DATER.
REDUCIBLE, AVOID MATER.
HAZARDOUS DECOMPOSITION PRODUCTS:
THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES CONTAINING ORGANIC ACIDS, CARBON DITE DE AND CARBON MONOXIDE.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC,
OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS, VENTILATE AREA. CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

WASTE DISPOSAL METHOD:

TISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY. DO NOT

PRODUCT CODE IDENTITY: 829A369

PRODUCT NAME: WALZEN9230 MED. SLATE ENL

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

DO NOT BREATHE VAPORS OR SPRAY MIST. WEAR AN APPROPRIATE. PROPERLY FITTED RESPIRATOR (NIDSH/MSHA APPROVED) DURING APPLICATION AND OTHER USE OF THIS PRODUCT UNTIL VAPORS AND MISTS ARE EXHAUSTED. UNLESS AIR MONITORING DEMONSTRATES VAPOR AND MIST LEVELS ARE BELOW APPLICABLE LIMITS. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPORS. IN CONFINED AREAS, USE APPROVED AIR SUPPLIED RESPIRATORS OR HOODS. OBSERVE OSHA STANDARD 29CFR 1910.134.

VENTILATION:
PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS IN THE MIXING, APPLICATION AND CURING AREAS; AND TO REMOVE DECOMPOSITION PRODUCT DURING WELDING AND FLAME CUTTING ON SURFACES COATED WITH THIS PRODUCT. IN CONFINED AREAS, USE ONLY WITH FORCED VENTILATION ADEQUATE TO KEEP VAPOR CONCENTRATION BELOW 20% OF LOWER EXPLOSION LIMITS. REFER TO DSHA STANDARDS 29CFR 1910.94, 1910.107,

NOTE: HEAVY SOLVENT VAPORS SHOULD BE REMOVED FROM LOWER LEVELS OF THE WORK AREA AND ALL IGNITION SOURCES (NONEXPLOSION-PROOF MOTORS. ETC.) SHOULD BE ELIMINATED.

USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT PROTECTIVE GLOVES:

EYE PROTECTION:

USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS. DO NOT GET IN EYES. CHEMICAL GOGGLES. FACE SHIELDS.

OTHER PROTECTIVE EQUIPMENT:
'DID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH
NTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING. INCLUDING SHOES. BEFORE **KEUSF**.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED
TO COMPLY WITH OSHA 1910.106. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP
CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS:

THE PRECAUTIONS:

CONTAINERS SHOULD BE GROUNDED WHEN POURING. DO NOT TAKE INTERNALLY. WASH
HANDS AFTER USING AND BEFORE SMOKING OR EATING. EMPTIED CONTAINERS MAY RE—
TAIN HAZARDOUS RESIDUE AND EXPLOSIVE VAPORS. KEEP AWAY FROM HEAT, SPARKS AND
FLAMES. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR EMPTIED CONTAINERS. FOLLOW
ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY
CLEANED OR DESTROYED FOR THIS PRODUCT IS BLENDED WITH OTHER COMPONENTS SUCH
AS THINNERS. CONTENER, COLORANTS AND CATALYSTS PRIOR TO USE. READ ALL WARNING LABELS. AND MAINTURE OF COMPONENTS WILL HAVE HAZARDS OF ALL COMPONENTS.
FOLLOW ALL PRECAUTIONS. IF SPRAYING THIS MATERIAL, KEEP SPRAY BOOTHS CLEAN.
AVOID BUILDUP OF SPRAY DUST OR OVERSPRAY IN BOOTHS OR DUCTS.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE DNLY

SECTION X - SARA TITLE III INFORMATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR PART 372.

PRODUCT CODE IDENTITY: 829	A369	PRODUCT NAME	: MALZEMOCTO MEDV- SLATS-EMILIA
CHEMICAL NAME			SARA TITLE III SECTION 311 AND 312 HAZARO CATAGORIES
CHROMIUM, AND DESCRIPTION OF TITANIUM DIOXIDE COMPOUND. 4% CHROMIUM (CR) & 10% ANTIMONY (SB)	E-06-98 1860	1.0423	DELAYED (CHRONIC)
BARIUN SULPHATE, 59% BARI UM (BA)	007727-43-7	4.6740	DELAYED (CHRONIC)
TOLUENE	000108-88-3	3•9480	IMMEDIATE (ACUTE) DELAYED (CHRONIC) FIRE HAZARD
N-BUTYL ALCOHOL	000071-36-3	5.7060	IMMEDIATE (ACUTE) DELAYED (CHRONIC) FIRE HAZARD
N-BUTYL ACETATE	000123-86-4	3.8380	IMMEDIATE (ACUTE) DELAYED (CHRONIC) FIRE HAZARD
METHYL ETHYL KETONE	000078-93-3	2.8100	IMMEDIATE (ACUTE) DELAYED (CHRONIC) FIRE HAZARD

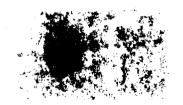
DISCLAIMER AND LIMITATION OF LIABILITY

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. TO THE EXTENT ALLOWED BY LAW, THIS STATEMENT IS MADE IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR INPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND IS IN LIEU OF ANY OTHER OBLIGATIONS OR LIABILITY ON THE PART OF COOK PAINT AND VARNISH COMPANY.

COOK PAINT AND VARNISH COMPANY WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

VARNISH COMPANY.

COOK PAINT AND VARNISH COMPANY WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. FINAL DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR THE USE CONTEMPLATED. THE MANNER OF USE. AND WHETHER THE SUGGESTED USE INFRINGES ANY PATENT IS THE SOLE RESPONSIBILITY OF THE BUYER.





WD-40



MATERIAL SAFETY DATA SHEET

NFPA

I. PRODUCT IDENTIFICATION

Manufacturer:

WD-40 Company

Address:

1061 Cudahy Place (92110)

P.O. Box 80607 San Diego, California

92138-9021

Emergency Telephone:

Chemical Name:

(619) 275-1400

Organic Mixture

Trade Name:

WD-40 Bulk Liquid

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	%	Exposure Limit ACGIH/OSHA
Aliphatic Petroleum Distillates	8052-41-3	70	100 ppm (PEL)
Petroleum Base Oil	8012-95-1	20	5 mg/M³ (TWA)
Corrosion Inhibitor	Proprietary Mixture	< 10	5 mg/M³ (TWA)
Wetting Agent	Proprietary Mixture	< 5	500 ppm (PEL)
Fragrance	Proprietary Mixture	< 5	NDA

III. PHYSICAL DATA

Boiling Point:

300°F (minimum)

Vapor Density (air = 1): Solubility in Water: Greater than 1 insoluble

Specific Gravity $(H_20 = 1)$:

.800 @ 70°F

Percent Volatile (volume): 74%

Evaporation Rate:

Vapor Pressure:

Appearance:

Odor:

Not determined

Cloudy light amber

Characteristic odor

IV. FIRE AND EXPLOSION

Flash Point:

Flammable Limits:

Flammable Limits:

Extinguishing Media:

Special Fire Fighting Procedures:

Unusual Fire and Explosion Hazards:

Tag Open Cup 110°F (minimum)

(solvent portion) [Lel] 1.0% [Uel] 6.0%

CO₂, Dry Chemical, Foam

None

None

V. HEALTH HAZARD INFORMATION

Threshold Limit Value

Aliphatic Petroleum Distillates (Stoddard solvent) lowest TLV (ACGIH 100 ppm.)

Symptoms of Overexposure

Inhaled Vapor: May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation.

Skin Contact: May cause drying of skin and or irritation. Eye Contact: May cause irritation, tearing and redness.

Swallowed: May cause irritation, nausea, vomiting and diarrhea.

Aspiration into Lungs: May cause chemical pneumonitis.

First Aid Emergency Procedures

Swallowed:

Do not induce vomiting, seek medical attention.

Eye Contact:

Immediately flush eyes with large amounts of water for 15 minutes.

Skin Contact: Wash with soap and water.

Inhaled:

Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give

oxygen.

Suspected Cancer Agent

Yes____ No_X

The components in this mixture have been found to be noncarcinogenic

by IARC and NTP.

VI. REACTIVITY DATA Stability: Stable X Unstable Conditions to avoid: . NA Incompatability: Strong oxidizing materials Hazardous decomposition products: Hazardous polymerization: May occur Will not occur X VII. SPILL OR LEAK PROCEDURES **Spill Response Procedures** Absorb small quantities with sand, earth, sawdust. Large quantities pump into tank. **Waste Disposal Method** Incinerate liquid, bury saturated absorbent in land fill. Dispose of in accordance with local, state and federal regulations. VIII. SPECIAL HANDLING INFORMATION Ventilation: Sufficient to keep solvent vapor less than TLV. Respiratory Protection: None required. Protective Gloves: None required. Eye Protection: None required. Other Protective Equipment: None required. IX. SPECIAL PRECAUTIONS Keep from open flame, do not take internally. Avoid excessive inhalation of spray particles. X. TRANSPORTATION DATA **Domestic Surface** Description: Petroleum Distillate Mixture Hazard Class: Combustible Liquid UN 1268 ID No.: Label Required: NONE, for containers less than 100 Gallons **Domestic Air** Description: Petroleum Distillate Mixture Hazard Class: Combustible Liquid

SIGNATURE: R. Miles TITLE: Technical Director

REVISION DATE: April 1986 SUPERSEDES: December 1985

< = Less than

NDA = No data available

Label Required: NONE, for containers less than 110 Gallons

NA = Not applicable

0908-4111

TRW-02726

> = More than

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CATALYST . O			ALLOYS - O		L	
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EXTINGUISHING MEDIA CO2 C C14 Dr		enical			i	
SPECIAL FIRE FIGHTING PROCEDURES	•		fire techniques			
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INUSUAL FIRE AND EXPLOSION HAZARDS	•		TRW	-027	4 7	

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	SECTION	VI REACTIVITY	DATA
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S	ECTION VIII SPE	CIAL PROTECTION	INFORMATION
LEGIZIATOM FADIECTION	Speaffe type) None		
VERTILATION LCC	Normal Normal		EFECIAL
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	SECTION IX	SPECIAL PRECAU	TIONS
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************** 2,444,643,845,053,000,668,644,645,644,640 ************ Phone (203) 621-6755 REM Chemicals, Inc. 325 West Queen Street Fax (203) 621-8822 Emergency Response # (203) 628-4372 Southington, CT 06489 30/2009/CE2000/CE HEALTH Blue ----- 1 FLAMMABILITY Red ---- 0 REACTIVITY Yellow ----- 0 SPECIAL HARARDS White ----- N/A - General Information PRODUCT TRADE NAME REMO WS-503 CHEMICAL FAMILY & SYNONYMS Proprietary CHEMICAL FAMILY Scap mixture CAS NO. N/A DOT SHIPPING NAME Non-Hazardous, cleaning liquid, freezable DOT HARARD CLASS Non-Hazardous Hazardous Ingredients ACGIH OSKA Chemical Identity CAS No. PIL TLY Not Available

REM® WS-503

Page 2

Sassen - Physical Data

Boiling Point ('F)

: 212' F

Specific Gravity $(H^2O = 1)$: Water vapor

Vapor Pressure (mgHg)

: Water vapor

Percent Volatile by Vol &

: N/A

Vapor Density (Air = 1)

: Water vapor

Evaporation Rate

: N/A

Solubility in Water

: Infinite

PH

: 8.3

Appearance and Odor

: Liquid is light straw color

no odor.

- Fire and Explosion Data

Flash Point

: Not flammable .

Plash Point Test Method

: Not flammable

Flammable Limits & by Vol LEL : N/A

Flammable Limits t by Vol UEL : N/A

Extinguishing Media

: This product is not flammable.

Special Fire Fighting Procedures: None known

Unusual Fire Fighting Procedures: None known

REMO W8-503

Page 3

Second - Health Hazard Data

Threshold Limit Value

: None known

OSHA and ACGIH Carcinogen

: N/A

Symptoms of Exposure : Alkaline materials can on long term exposure defat the skin and lead to dermatitis.

Primary Route (s) of Entry : Skin and eyes.

Emergency First Aid - Eyes : Eye contact: does not present a significant eye irritation however, the material should be flushed from the eyes with water for 15 minutes.

Emergency First Aid - Skin : Skin contact: the area in contact with the product should be flushed with water.

Emergency First Aid - Ingestion: Seek medical attention.

REM® WS-503

Page 4

SECRETARIA - Reactivity Data

Stability

: Stable

Incompatibility

: None known

Materials To Avoid

: None known

Hazardous Polymerization

: Will not

Conditions To Avoid

: None known

Hazardous Decomposition Products: None known

- Spill or Leak Procedures

Action to Take for Spills : The liquid if spilled should be absorbed with inert material and sent to disposal in accordance with Federal, State and local regulations.

Waste Disposal Method : Treat with lime to a pH of
6.5 - 9.5 in accordance with Federal, State and local
regulations.

- Special Protection Information

Bye Protection

: Face shield or goggles

Skin Protection

: Rubber gloves

Respiratory Protection

: None required

Ventilation Recommended

: General

Other Protection

: None known

REM® WS-503

Page 5

- Special Precautions

Precautions in Handling and Storage: Store at room temperature above 40° F.

Prepared by: Robert Zobbi Title: Technical Director Date : July 2, 1992 (revised)

SECTION I - MANUFACTURERS INFORMATION

PRODUCT CODE IDENTITY: 829L319 380 PRODUCT NAME: WATERNOON DATE OF MS@S:

NAME : COMPANY ADDRESS: P.G. BOX 419389

10/26/87

KANSAS CITY. MO 64141-6389 ENERGENCY TELEPHONE: INFORMATION TELEPHONE: 816-391-6000 816-391-6003

ATTN: SAFETY AND HEALTH OFFICER

TRW INC FASTENERS DIV 265 THIRD STREET

CAMBRIDGE MA 02142 CUSTOMER NUMBER: 543462 DATE PRINTED: 08/29/88

SECTION II - HAZARDOUS INGREDIENTS

N-BUTYL ALCOHOL

CAS #: 000071-36-3

PERCENT: 5.000 VAPOR PRESSURE:

4.0

EXPOSURE LIMIT:

ACGEH TLV/TWA: OSHA PEL:

50 PPM (150 MG/CU-M.) 100 PPM (300 MG/CU-M.) SKIN. CEILING

TOLUENE

CAS #: 000108-88-3

PERCENT: 5.000 VAPOR PRESSURE: 22.0

(MMHG/DEG F)

(MMHG/DEG F)

EKPOSURE LIMIT:
ACGIH TLV/TWA:
ACGIH TLV/STEL:

OSHA PEL: OSHA PEL/CEILING: OTHER:

100 PPM (375 NG/CU.M.) 150 PPM (560 MG/CU-M-) 200 PPM (750 MG/CU-M-) 300 PPM (1120 MG/CU-M-)

DSHA: 500 PPM PEAK

BARIUM SULPHATE

CAS #: 007727-43-7

PERCENT: 5.000

VAPOR PRESSURE: (MMHG/DEG F)

N/A

EXPOSURE LIMIT:

ACGIN TLV/TWAS

10MG/CU-M.

TALC (HYDROWS MAGNESIUM SILICATE)

CAS #= 014807-96-6

PERCENT: 5.000

VAPOR PRESSURE: (MMHG/DEG F)

NZA

EXPOSURE LIMIT:

ACGIH TLV/TWA: OSHA PEL: 4 5

2 MG/CU.M. (RESPIRABLE DUST)

20 M PPGF

SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC

CAS #: 064742-95-6

PERCENT: 15-000

VAPOR PRESSURE: 3-0

(MMHG/DEG F)

EXPOSURE LIMIT:

ACGIH TLV/TWA:

OSHA PEL: OTHER:

NONE ESTABLISHED NONE ESTABLISHED

SUPPLIER RECOMMENDS: TLV/TWA 50 PPM

SILICA. ANORPHOUS

CAS #: 007631-86-9

PERCENT: 5-000 VAPOR PRESSURE:

(MMHG/DEG F)

NZA

EXPOSURE LIMIT:

OSHA PEL:

ACGIH TLY/TWA:

10MG/CU.M. TOTAL DUST 20M PPCF AS DUST

METHYL ETHYL KETONE

PRODUCT CODE IDENTITY: 829L319 - 380 PRODUCT NAME: MA12EN8841 VY DK SAPPHIRE

> CAS #: 000078-93-3 PERCENT: 5.000 VAPOR PRESSURE: 71-0 (MMHG/DEG F)

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: 200 PPM (590 MG/CU.M.) 300 PPM (885 MG/CU.M.) OSHA PEL: 200 PPM {590 MG/CU.M.}

THIS MATERIAL CONTAINS INGREDIENTS COVERED BY THE CALIFORNIA "SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986™ (PROPOSETEON 65).

SECTION III - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE TO PRODUCT. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT: IRRITATION. SYMPTOMS ARE TEARING. REDNESS AND DISCOMFORT.

IRRITATION. SKIN CONTACT: CAN CAUSE DEFATTING OF SKIN WHICH MAY LEAD TO

DERMATITIS.

INHALA TION:

IRRITATION TO NOSE AND THROAT. EXTENDED OR REPEATED EXPOSURE TO CONCENTRATIONS ABOVE THE RECOMMENDED EXPOSURE LIMITS MAY CAUSE BRAIN OR NERVOUS SYSTEM DEPRESSION. CAUSING DIZZINESS. HEADACHE OR NAUSEA AND IF CONTINUED INDEFINITELY. LOSS OF

CONSCIOUSNESS. LIVER AND KIDNEY DANAGE.

REPORTS HAVE ASSOCIATED REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. SYSTEM DAMAGE.

INGEST ION: MAY CAUSE MOUTH. THROAT. ESOPHAGUS AND STOMACH IRRITATION. NAUSEA. VONITING AND DIARRHEA.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT:

PREEXISTING EYE. SKIN. LIVER. KIDNEY AND RESPIRATORY DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES:

IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION; FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH WATER. IF SWALLOWED. GET MEDICAL ATTENTION INMEDIATELY. AIR.

SECTION IV - PHYSICAL DATA

BOILING POINT DEG . 175 VAPOR DENSITY IS HEAVIER THAN AIR

WEIGHT PER GALLON: 9.83 EVAPORATION RATE IS SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 40.354

SECTION V - FIRE AND EXPLOSION HAZARD DATA

OSHA FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID CLASS 18

FLASH POINT SETA CLOSED CUP. DEG F:

DOT HAZARD CLASS: RED-LABEL, FLAMMABLE LIQUID LEL: 1.00

EXTINGUISHING MEDIA: FOAM, CARBON DIOXEDE, DRY CHEMICAL, WATER FOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

VAPORS N'AY CAUSE FLASH FIRE. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT. SPARKS AND FLAME. NEVER USE WELDING OR CUTTING

PROPUCT CODE IDENTITY: 829L319 PRODUCT NAME: WA12EN8841 VY DK SAPPHIRE 380

TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

IF APPLIED IN CONFINED AREAS AND TANKS. USE ONLY EXPLOSION-PROOF AND PROPERLY GROUNDED EQUIPMENT. SPARK-PROOF TOOLS AND SPARK-PROOF SHOES-

SPECIAL FIRE FIGHTING PROCEDURES:

PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD SED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED. FOG NOZZLES ARE ERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE FULL BE USED. PREFERABLE. BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT

SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: NONE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: ELEVATED TEMPERATURES.

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG ACIDS AND STRONG OXIDIZING AGENTS. IF THIS PRODUCT IS NOT WATER REDUCTBLE. AVOID WATER.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES CONTAINING ORGANIC ACIDS. CARBON DIOXIDE AND CARBON MONOXIDE.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION (FLAMES. HOT SURFACES. AND ELECTRICAL.
OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CON STATIC. CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS. INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY. DO NOT

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

WEAR AN APPROPRIATE, PROPERLY FITTED DO NOT BREATHE VAPORS OR SPRAY MIST. WEAR AN APPROPRIATE. PROPERLY FITTED RESPIRATOR (NIDSH/MSHA APPROVED) DURING APPLICATION AND OTHER USE OF THIS PRODUCT UNTIL VAPORS AND MISTS ARE EXHAUSTED. UNLESS AIR MONITORING DEMONSTRATES WAPOR AND MIST LEVELS ARE BELOW APPLICABLE LIMITS. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPORS. IN CONFINED AREAS. USE APPROVED AIR SUPPLIED RESPIRATORS OR HOODS. OBSERVE OSHA STANDARD 29CFR 1910.134. DO NOT BREATHE VAPORS OR SPRAY MIST.

/ENTILATIONS

PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS IN THE MIXING. APPLICATION AND CURING AREAS; AND TO REMOVE DECOMPOSITION PRODUCT DURING WELDING AND FLAME CUITING ON SURFACES COATED WITH THIS PRODUCT. IN CONFINED AREAS, USE ONLY WITH FORCED VENTILATION ADEQUATE TO KEEP VAPOR CONCENTRATION BELOW 204 OF LOWER EXPLOSION LIMITS. REFER TO OSHA STANDARDS 29CFR 1910-94. 1910-104. 1910-108-

NOTE: HEAVY SOLVENT VAPORS SHOULD BE REMOVED FROM LIGWER LEVELS OF THE WORK AREA AND ALL IGNITION SOURCES (NONEXPLOSION-PROOF NOTORS. ETC.) SHOULD BE ELIMINATED.

USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT PROTECTIVE SLOVES:

EYE PROTECTION:

DO NOT GET IN EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS. CHENICAL GOGGLES. FACE SHIELDS.

PRODUCT CODE IDENTITY: 829L319 380

PRODUCT NAME: #A12EN8841 VY DK SAPPHIRE

OTHER PROTECTIVE EQUIPMENT:

AVOID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH

CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE REUSE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH DSHA 1910-106. KEEP AWAY FROM HEAT. SPARKS AND FLAME. KEEP CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS:

TER PRECAUTIONS:

CONTAINERS SHOULD BE GROUNDED WHEN POURING. DO NOT TAKE INTERNALLY. WASH
HANDS AFTER USING AND BEFORE SMOKING OR EATING. EMPTIED CONTAINERS MAY RE—
TAIN HAZARDOUS RESIDUE AND EXPLOSIVE VAPORS. KEEP AWAY FROM HEAT, SPARKS AND
FLAMES. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR EMPTIED CONTAINERS. FOLLOW
ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY
CLEANED OR DESTROYED. IF THIS PRODUCT IS BLENDED WITH OTHER COMPONENTS SUCH
AS THINNERS. CONVERTER. COLORANTS AND CATALYSTS PRIOR TO USE. READ ALL WARN—
ING LABELS. ANY MIXTURE OF COMPONENTS WILL HAVE HAZARDS OF ALL COMPONENTS.
FOLLOW ALL PRECAUTIONS. IF SPRAYING THIS MATERIAL. KEEP SPRAY BOOTHS CLEAN.
AVOID BUILDUP OF SPRAY DUST OR OVERSPRAY IN BOOTHS OR DUCTS.

KEEP OUT OF REACH OF CHILDREN

. . . KV to . ياريد س FOR INDUSTRIAL USE ONLY

DISCLAIMER AND LIMITATION OF LIABILITY

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VARNISH COMPANY.

COOK PAINT AND VARNISH COMPANY WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. FINAL DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR THE USE CONTEMPLATED. THE MANNER OF USE. AND WHETHER THE SUGGESTED USE INFRINGES ANY PATENT IS THE SOLE RESPONSIBILITY OF THE BUYER.

Dennis F. Borsuk 617,494,5784

4/22 D. Nurcross

Dick.

In which department is this product und?

Dyst. 230 6/22

Denois

SECTION I - MANUFACTURERS INFORMATION

PRODUCT CODE IDENTITY: 868A213 PRODUCT NAME: 380 NAME

: COUK PAINT AND VARNISH COMPANY ADDRESS: P.C. BOX 419389

DATE OF MSDS:

06/09/87

KANSAS CITY. MO 64141-6389 EMERGENCY TELEPHONE: INFORMATION TELEPHONE:

816-391-6000 816-391-6003

ATTN: SAFETY AND HEALTH OFFICER

TRW INC FASTENERS DIV 265 THIRD STREET

CAMBRIDGE

MA 02142

CUSTOMER NUMBER: 543462

DATE PRINTED: 06/10/87

SECTION II - HAZARDOUS INGREDIENTS

ETHYLENE GLYCGL MONGPROPYL ETHER

CAS #: 2807-30-9

PERCENT: 10.000

VAFOR PRESSURE:

1.3

EXPOSURE LIMIT:

OTHER:

MFG. RECOMMENDS: TLV/TWA 25 PPM (SKIN)

FOR JALDEHYDE

CAS #: 50-00-0

PERCENT: 0.105

1 PPM 2 PPM VAPOR PRESSURE:

NZA

6.0

N/A

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL:

OSHA PEL: 3 PPM OSHA PEL/CEILING: 5 PPM

OTHER:

CSHA PEL/PEAK: 10 PPM

ISJBUTYL ALCOHOL

CAS #: 78-83-1

PERCENT: LESS THAN 5 **VAPOR PRESSURE:** 9.0

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: OSHA PEL:

50 PPM (150 MG/CU.M.) 75 PPM (225 MG/CU.M.) 100 PPM (300 MG/CU.M.)

XYLENE

CAS #: 1330-20-7

PERCENT: 25.000 **VAPOR PRESSURE:**

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL: OSHA PEL:

100 PPM (435 MG/CU.M.) (655 MG/CU.M.) 150 PPM (435 MG/CU.M.) 100 PPM

TALC (HYDROUS MAGNESIUM SILICATE)

CAS #: 14807-96-6

OSHA PEL:

VAPOR PRESSURE: PERCENT: 10-000

EXPOSURE LIMIT:

ACGIH TLV/TWA:

MG/CU.M. (RESPIRABLE DUST)

20 M PPCF

ALUMINUM POWDER

CAS #: 7429-90-5 PERCENT: LESS THAN 5 VAPOR PRESSURE: N/A

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL:

10 MG/CU.MAS ALUMINUM DUST 20 MG/CU.M AS ALUMINUM DUST

SULVENT NAPHTHA (PETROLEUM) MEDIUM ALIPHATIC

CAS #: 64742-88-7

PERCENT: LESS THAN 5 **VAPOR PRESSURE:** 1.7

EXPOSURE LIMIT:

TRW-02739

PRODUCT NAME: W55A8242 DK.GRAY METALLIC PROJUCT CODE IDENTITY: 868A213 380

> ACGIH TLV/TWA: OSHA PEL:

NONE ESTABLISHED NONE ESTABLISHED

OTHER:

MFG RECOMMENDS. TLV/TWA=100PPM. TLV/STEL=200PPM

BIS(1.2.2.6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE

CAS #: NOT ASSIGNED PERCENT: LESS THAN 5 **VAPOR PRESSURE:** N/A

EXPOSURE LIMIT:

ACGIH TLV/TWA: OSHA PEL:

NONE ESTABLISHED NONE ESTABLISHED

ETHYLENE GLYCOL MONOBUTYL ETHER

CAS #: 111-76-2 VAPOR PRESSURE: PERCENT: LESS THAN 5 0.6

EXPOSURE LIMIT:

ACGIH TLV/TWA: ACGIH TLV/STEL:

25 PPM (SKIN) (120 MG/CU.M.) PPM (SKIN) (360 MG/CU-M-)

OSHA PEL: PPM (SKIN) (240 MG/CU-M.)

SOLVENT NAPHTHA (PETROLEUM) LIGHT ALIPHATIC

PERCENT: LESS THAN 5 **VAPOR PRESSURE:** CAS #: 64742-89-8 8.0

EXPOSURE LIMIT:

300 PPM (1350 MG/CU.M.) ACGIH TLV/TWA:

ACGIH TLV/STEL: 400 PPM (1800 MG/CU.M.)

SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC

CAS #: 64742-95-6 PERCENT: 5-000 VAPOR PRESSURE: 3.0

EXPOSURE LIMIT:

EYE CONTACT:

ACGIH TLV/TWA:

NONE ESTABLISHED NONE ESTABLISHED

OSHA PEL:

TL V/TWA: OTHER: 100 PPM. ESTIMATED

SECTION III - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE TO PRODUCT. PRIMARY ROUTES OF ENTRY ARE:

LIQUID AND VAPOR CAN BE IRRITATING TO EYES. SYMPTOMS ARE

TEARING, REDNESS AND DISCOMFORT.

CAN CAUSE IRRITATION. CAN CAUSE DEFATTING OF SKIN WHICH CAN LEAD TO DERMATITIS. TOXIC BY ABSORPTION THROUGH SKIN WITH SAME SYMPTOMS AS SHOWN BY INHALATION. SKIN CONTACT:

ANESTHETIC. OVEREXPOSURE CAN CAUSE IRRITATION TO UPPER RES-INHALATION: PIRATORY TRACT. CONTINUED OVEREXPOSURE CAN LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PRO-

GRESSIVE STEPS IF SEVERE OVEREXPOSURE IS CONTINUED: HEADACHE, DIZZINESS, NAUSEA AND LOSS OF CONSCIOUSNESS.

REPORTS HAVE ASSOCIATED REPEATED OR PROLUNGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

SWALLOWING CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. INGESTION:

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PREEXISTING EYF. SKIN AND RESPIRATORY DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES:

IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST

PRODUCT CODE IDENTITY: 868A213 380 PRODUCT NAME: W55A8242 DK.GRAY METALLIC

15 MINUTES AND GET MEDICAL ATTENTION; FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING. THOROUGLY CLEAN CONTAMINATED SHOES. IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED, GET MEDICAL ATTENTION.

OTHER HEALTH HAZARDS:

EXTENDED OVEREXPOSURE OF EXPERIMENTAL ANIMALS TO ETHYLENE GLYCOL MONOPROPYL ETHER VIA INHALATION, SKIN CONTACT AND INGESTION HAS BEEN FOUND TO PRODUCE TOXIC EFFECTS ON RED BLOOD CELLS.
FURMALDEHYDE IS LISTED BY NTP, IARC AND ACGIH AS A CANCER HAZARD BASED ON TESTS AITH LABORATORY ANIMALS. HOWEVER, IARC CONCLUDED THERE IS INSUFFICIENT EVIDENCE TO DETERMINE IF FORMALDEHYDE CAUSES CANCER IN MAN.
EXPOSURE OF EXPERIMENTAL ANIMALS TO ETHYLENE GLYCOL MONOBUTYL ETHER VIA INHALATION, SKIN ABSORPTION OR INGESTION PRODUCES A TOXIC EFFECT IN THE RED BLOOD CELL. HOWEVER, RED BLOOD CELL OSMOTIC FRAGILITY (A SENSITIVE INDICATOR OF RED BLOOD CELL TOXICITY) WAS NOT INCREASED IN HUMANS EXPOSED VIA INHALATION TO 195 PPM FOR 3 HOURS. THIS IS WELL ABOVE THE MAXIMUM TOLERATED LEVEL. IRRITATION OF EYES, NOSE AND THROAT NORMALLY CCCURS AT 100 PPM. THE ODDER DOES NOT HAVE GOOD WARNING PROPERTIES.

SECTION IV - PHYSICAL DATA

BUILING POINT, DEG.F. 223

WEIGHT PER GALLON:

VAPOR DENSITY IS HEAVIER THAN AIR

8.34

EVAPORATION RATE IS SLOWER THAN ETHER

PERCENT VCLATILE BY VOLUME: 67.471

SECTION V - FIRE AND EXPLOSION HAZARD DATA

OSHA FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID CLASS IB

FLASH POINT SETA CLOSED CUP, DEG F: 57

DOT HAZARO CLASS: RED-LABEL, FLAMMABLE LIQUID

LEL: 0.90

EXTINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

VAPORS MAY CAUSE FLASH FIRE. KEEP CONTAINERS TIGHTLY CLOSED AND ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

IF APPLIED IN CONFINED AREAS AND TANKS. USE ONLY EXPLOSION-PROOF AND PROPERLY GROUNDED EQUIPMENT, SPARK-PROOF TOOLS AND SPARK-PROOF SHOES.

SPECIAL FIRE FIGHTING PROCEDURES:
FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD
BE USED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE
PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE
BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT

SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: NONE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: ELEVATED TEMPERATURES.

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG ACIDS AND STRONG OXIDIZING AGENTS. IF THIS PRODUCT IS NOT WATER REDUCIBLE. AVOID WATER.

HAZARDOUS DECOMPOSITION PRODUCTS:
THERMAL DECOMPOSITION OR COMBUSTION CAN PRODUCE FUMES CONTAINING ORGANIC

PRODUCT CODE IDENTITY: 868A213 330 PRODUCT NAME: W55A8242 DK. GRAY METALLIC

ACIDS, CARBON DIOXIDE AND CARBON MONOXIDE.

DTHER REACTIVITY:

FORMALDEHYDE, AMMONIA AND/OR DXIDES OF NITROGEN CAN BE PRODUCED.
ALJ4INUM MAY REACT WITH WATER, ACIDS AND ALKALIES TO FORM COMBUSTIBLE HYDROGEN
GAS. ALUMINUM MAY REACT VICLENTLY WITH HALDGENATED HYDROCARBONS.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, AND ELECTRICAL, STATIC, DR FRICTIONAL SPARKS). AVOID BREATHING VAPORS. VENTILATE AREA. CONTAIN AND CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

WASTE DISPUSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PRUTECTION:

JO NOT BREATHE VAPORS OR SPRAY MIST. WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) DURING APPLICATION AND OTHER USE OF THIS PRODUCT UNTIL VAPORS AND MISTS ARE EXHAUSTED, UNLESS AIR MONITORING DEMON-STRATES VAPOR AND MIST LEVELS ARE BELOW APPLICABLE LIMITS. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. USE APPROVED CHEMICAL/MECHAN— ICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPORS. IN CONFINED AREAS, USE APPROVED AIR SUPPLIED RESPIRATORS OR HOODS. OBSERVE OSHA STANDARD 29CFR 1910.134.

VENTILATION:

PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE AIR CONTAMINANT CONCENTRATION BELOW THE LOWER EXPLOSION LIMIT AND BELOW CURRENT APPLICABLE EXPOSURE LIMITS IN THE MIXING, APPLICATION AND CURING AREAS; AND TO REMOVE DECOMPOSITION PRODUCT DURING WELDING AND FLAME CUTTING ON SURFACES COATED WITH THIS PRODUCT. IN CONFINED AREAS, USE JNLY WITH FORCED VENTILATION ADEQUATE TO KEEP VAPOR CONCENTRATION BELOW 20% OF LOWER EXPLOSION LIMITS. REFER TO OSHA STANDARDS 29CFR 1910.94, 1910.107, 1910-108-

NOTE HEAVY SOLVENT VAPORS SHOULD BE REMOVED FROM LOWER LEVELS OF THE WORK AREA AND ALL IGNITION SOURCES (NONEXPLOSION-PROOF MOTORS. ETC.) SHOULD BE ELIMINATED.

PROTECTIVE GLOVES: USE SOLVENT IMPERMEABLE GLOVES TO AVOID CONTACT WITH PRODUCT

YE PROTECTION:

AVOID CONTACT WITH EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS. CHEMICAL GOGGLES. FACE SHIELDS.

THER PROTECTIVE EQUIPMENT:
AVOID CONTACT WITH SKIN. USE PROTECTIVE CLOTHING. PREVENT CONTACT WITH
CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING, INCLUDING SHOES, BEFORE

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP AWAY FROM HEAT. SPARKS AND FLAME. KEEP CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS:

CONTAINERS SHOULD BE GROUNDED WHEN POURING. DO NOT TAKE INTERNALLY. WASH HANDS AFTER USING AND BEFORE SMOKING OR EATING. EMPTIED CONTAINERS MAY RETAIN HAZARDOUS RESIDUE AND EXPLOSIVE VAPORS. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. DO NOT CUT, PUNCTURE OR WALL OF NOTICE CONTAINERS. FOLLOW ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY

PRODUCT CODE IDENTITY: 868A213 380 PRODUCT NAME: W55A8242 DK.GRAY METALLIC

CLEANED OR DESTROYED. IF THIS PRODUCT IS BLENDED WITH OTHER COMPONENTS SUCH AS THINNERS, CONVERTER, COLORANTS AND CATALYSTS PRIOR TO USE, READ ALL WARNING LABELS. ANY MIXTURE OF COMPONENTS WILL HAVE HAZARDS OF ALL COMPONENTS. FOLLOW ALL PRECAUTIONS. IF SPRAYING THIS MATERIAL, KEEP SPRAY BOOTHS CLEAN. AVOID BUILDUP OF SPRAY DUST OR OVERSPRAY IN BOOTHS OR DUCTS.

KEEP OUT OF REACH OF CHILDREN

9**7**₩ 627 -- 91‡ - 1 FOR INDUSTRIAL USE ONLY

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INFRINGES ANY PATENT IS THE SQLE RESPONSIBILITY OF THE BUYER.



U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME

WD-40 Company

ADDRESS (Number, Street, City, State, and ZIP Code)

1061 Cudahy Place (92110), P. O. Box 80607, San Diego, California 92138-9021

CHEMICAL NAME AND SYNONYMS

Organic Mixture

CHEMICAL FAMILY

FORMULA

SECTIO	N II	HAZAR	DOUS INGREDIENTS	1	i di
PAINTS, PRESERVATIVES, & SOLVENTS	*	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS Not Applicable			BASE METAL Not Applicable		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURE	S OF O	THER LIQ	UIDS, SOLIDS, OR GASES	*	TLV (Units)
Aliphatic petroleum distillate	es (S	toddar	d Solvent) Over	70	500ppm
Petroleum Base Oil (Contraction)	2		0ver	20	
Proprietary corrosion inhibite	ors,	rust p	reventatives, wetting agents		
(none of which constitute any	spec	ial ha:	zard from a toxicity or handling	Ra	anace
			70.02 00 00 00 00 00 00 00 00 00 00 00 00 0		
And the second of the second o	ECTIO	of His	PHYSICAL DATA	CN.	
BOILING POINT (F.) (initial minimum)	3	00 ⁰ F.	SPECIFIC GRAVITY (H20=1)	.80	oogo ^o F.
VAPOR PRESSURE (mm Hg.) not determined			PERCENT VOLATILE BY VOLUME (%)		74%
VAPOR DENSITY (AIR=1) greater than]			EVAPORATION RATE		
SOLUBILITY IN WATER	Ins	oluble	(forms unstable emulsion)		

SECTION IV FIRE AN	D EXPLOSION HAZARD DATA	<u> </u>	
FLASH POINT (Method used)	FLAMMABLE LIMITS	Let	Uel
Tag Open Cup 110° F. (Minimum)			
EXTINGUISHING MEDIA			
CO2. Dry Chemical. Foam			
SPECIAL FIRE FIGHTING PROCEDURES			
None			
UNUSUAL FIRE AND EXPLOSION HAZARDS	····		
None			

APPEARANCE AND ODOR Slightly cloudy, light amber liquid, slight characteristic odor

(BULK) 9-1-84

		SECTION V	HEA	THE MALLANDA
THRESHOLD LIMIT VA				
EFFECTS OF OVEREXPO	OSURE Drying of	skin, ey	e irri	tation, inhalation of vapor may cause Lupper respiratory irritation. Swallowing nd diarrhea. Aspiration into lungs can cause
can cause irr	itation, naus	ea, vomit	ing ar	nd diarrhea. Aspiration into lungs can cause
EMERGENCY AND FIRS	I AID PROCEDURES			
with plenty of	, <u>do not indu</u> f water, remo	<u>ce vomiti</u> ve contac	ng <u>c</u> t lens	all a physician. For eye contact, flush ses if worn. For skin contact, wash with shalation, remove to fresh air, give
artificial re	r, apply skin Spiration if	cream. necessary	tor ir	nhalation, remove to fresh air; give or preating is difficult, give oxygen.
		SECTION	VI R	EACTIVITY DATA
STABILITY	UNSTABLE	CC	MOITIONC	IS TO AVOID
	STABLE	X		
INCOMPATABILITY (M	aterials to avoid)	 		
HAZARDOUS DECOMP	OSITION PRODUCTS	-	dizing	materials
		one	T	CONDITIONS TO AVOID
HAZARDOUS POLYMERIZATION	MAY OCCUR	-	ļ	
	WILL NOT O	CUR	Х	<u> </u>
				
STEPS TO BE TAKEN II				OR LEAK PROCEDURES
				bent. Large quantities should be contained
and pumped in	to storage ta	nk		
				· .
WASTE DISPOSAL MET	нор Incinera	te liguid	: bury	saturated absorbent in land fill.
en en la seconda de la constanta de la constant			1 12	
	SECTIO	N VIII SPI	ECIAL	PROTECTION INFORMATION
RESPIRATORY PROTEC				
VENTILATION	LOCAL EXHAUST	None means		SPECIAL None required
	MECHANICAL (Gen	None requi		None required
PROTECTIVE GLOVES		None requi	ired	None required
OTHER PROTECTIVE E	None requi			None required
	None	required	····	
		SECTION I	K SPI	CIAL PRECAUTIONS
PRECAUTIONS TO BE				
			-	from open flame. Do not take internally.
Avoid excessive other precautions	<u>re inhalation</u>	of spray	<u>parti</u>	cles.
i				

Collamor 340

CMI INTERNATION 21441 Hoover R	Page 1 of 2 oad, Warren, MI 48089 24-Hour EMERGENCY Phone Number 313-497-9129									
REVISION: 3/1	8/88 MATERIAL SAFETY DATA SHEET RECEIVED									
	th OSHA's Hasard Communication Standard, and must be consulted for specific requirements. Section I AUG 15 1988									
Product Trade	ame: Objetite, weeking Agent OZA									
<u>Hazardous Comp</u>										
Formaldehyde	50-00-0 < 0.01 1.0 mg/m³ TWA OSHA Z-2/H NTP C 2.0 ppm 15 min. STEL C/A-2 suspected human carcinogen									
	C/A-2 Suspected Human Cart Thogen									
Physical Data	Section III									
Appearance and	Odor: Light yellow liquid with aromatic odor.									
Negligible < Slight Moderate Appreciable >	Solubility in Water: Negligible <0.1% Slight 0.1-1.0% Moderate 1.0-10.0% Appreciable >10.0% Complete(all proportions) X Boiling Point Vapor Pressure N/A Percent Volatile by Volume Evaporation Rate N/A Specific Gravity PH Boiling Point N/A Vapor Pressure N/A Percent Volatile by Volume N/A Evaporation Rate N/A Specific Gravity Output Description N/A Percent Volatile by Volume N/A Evaporation Rate N/A Specific Gravity Output Description N/A Percent Volatile by Volume N/A									
Fire and Explos	ion Hazard Data Section IV									
Flash Point	None Flammable/Explosive Limits LEL N/A UEL N/A									
(method used) NFPA Code (0-4)	Health 0 Flammability 0 Reactivity 0									
Extinguishing N										
Special Fire- Fighting Prod	Use media suitable for surrounding fire.									
Unusual Fire ar Explosion Haz	d None known.									
Health Hazard [Section V									
Threshold Limit Effects of Over Acute: Chronic:										
	te of Exposure: Contact.									
Eye	Aid Procedures: Flush with a directed stream of water for 15 minutes. Seek medical attention.									
Skin	Wash with soap and water. Remove to fresh air.									
_	Drink water (2-3 glasses) to dilute. Seek medical attention.									

OHT Tabasachianal Campasach	
UML International Corporat 	ion Material Safety Data Sheet Page 2 of 2
Product Trade Name	Wetting Agent 62A
 Reactivity Data	Section VI
Reactivity Data	Section VI
Stability:	Stable X Unstable
Incompatibility	
Incompatibility (Materials to Avoid):	None known
Hazardous Decomposition	
Products:	None
Hazardous Polymerization	May Occur Will Not OccurX
Spill or Leak Procedures	Section VII
Steps to be taken in case	material is released or spilled:
Contain and place into a c	container suitable for transportation to a licensed waste
treatment facility.	
Wasta Disposal Mathod	Licensed waste treatment facility.
EPA I.D. Number	N/A RO N/A
,	
Special Protection Informa	Section VIII
Ventilation:	
	Respiratory Protection No
Protective Clothing:	hukul mukhan an maannan D. I.
Gloves Chemical Safety Goggles	butyl rubber or neoprene Boots No Yes Other: No
Full Face Shield	Yes Other: No
Note: Eye Fountain and Sa	fety Shower must always be available.
Special Precautions	Section IX
Handling & Storage	No special positionents
Other	None
	
Shipping Information	Section X
DOT Proper Shipping Name	None
Hazard Class	None
DOT Label(s)	None
IATA Class:	N/A Packing Group: N/A
IMDGC Class:	N/A Packing Group: N/A
Prepared by:	Date 3/18/88
Carl(N. Gils	dorf, Manager, Quality Assurance
This form has been prepare	d and reviewed by technically knowledgeable people and
is based on information OM	I International Corporation believes to be reliable.
This information is provid	ed solely to provide health and safety guidelines and
is not to be intended for	any other purpose.

NFPA Code !Heaftir 3 Flammability

0

Reactivity

MATERIAL SAFETY DATA SHEET

PRODUCT CODE:

8728-3W

DATE OF PREP.

January 12, 1989

Section I

..ANUFACTURER: RAFFI & SWANSON, INC.

100 EAMES STREET

WILMINGTON, MA 01887

MANUFACTURERS' CODE IDENTIFICATION:

White Ename 1-8728

EMERGENCY TELEPHONE NO.: 617-933-4200

PRODUCT CLASS:

Solvent Based Compound

TRADE NAME: None

THIS PRODUCT IS A MIXTURE CONTAINING ONE OR MORE HAZARDOUS INGREDIENTS.

INFORMATION ON THE COMPOSITION OF RAFFI & SWANSON, INC. PRODUCTS IS CONFIDENTIAL PROPRIETARY INFORMATION AND IS PROVIDED SOLELY TO AID IN SAFE HANDLING OF THESE MATERIALS. USE OR DISCLOSURE FOR ANY OTHER PURPOSE IS EXPRESSLY FORBIDDEN.

Section II — HAZARDOUS INGREDIENTS											
INGREDIENTS	CAS NUMBER	APPROX. PERCENT BY WEIGHT	TLV PPM mg/M³		LEL % BY VOL	VAPOR PRESSURE mm of Hg					
Xylol †	1330-20-7	43	100		1.0	5.9					
n-Butyl Alcohol-Skin †	71-36-3	6	50		1.4	4.3					
Formaldehyde *C* †	50-00-0	.54	1		Not App	licable-					
f Subject to the reporting requirem	nents of EPA Reg. 40	CFR 372	(SARA Tit	le III,	sec. 313).						
C indicates a carcinogen or susp	ect carcinogen acco	rding to	ACGIH, OS	HA, NTP	r IARC.						

Section III — PHYSICAL DATA

EVAPORATION RATE: FASTER SLOWER, THAN ETHER

BOILING RANGE: 243°-291°F PERCENT VOLATILE BY VOL:

VAPOR DENSITY: ☑ HEAVIER ☐ LIGHTER, THAN AIR

9.44# **WEIGHT PER GAL:**

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

FLASH POINT (closed cup):

LEL: 1.0%

Flammable Liquid DOT: OSHA:

Flammable Liquid-Class IB

flashing component

81°F lowest

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, sparks and open flame. Do not apply to hot surfaces. Closed containers may explode when exposed to extreme heat.

Standal FIRE FIGHTING PROCEDURES: Water may be ineffective. Water may be used to cool closed containers. Irritating or toxic gases may be present. Use self-contained breathing apparatus.

PRODUCT CODE: 8728-3W

Section V — HEALTH HAZARD DATA (Based on data for individual ingredients)

THRESHOLD LIMIT VALUE - See Section II

EFF TTS OF OVEREXPOSURE

ONIC TOXICITY: See Section IX.

INHALATION: Vapor irritating to eyes, nose, and throat. Can cause headache, dizziness, nausea, weakness, loss of consciousness.

Prolonged overexposure may cause permanent injury.

SKIN: Penetrates skin.

Prolonged and repeated contact may cause drying of the skin, and absorption of harmful amounts.

EYE CONTACT: Burning and irritation.

INGESTION: Do not take internally. May cause nausea, vomiting, diarrhea and other toxic effects.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Provide fresh air. Give artificial respiration or oxygen if necessary. CALL A PHYSICIAN.

SKIN: Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash clothes thoroughly before re-use.

EYE CONTACT: Flush with water for at least 15 minutes. SEE PHYSICIAN.

INGESTION: DO NOT INDUCE VOMITING.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. CALL A PHYSICIAN.

Section VI — REACTIVITY DATA

STABILITY: UNSTABLE WSTABLE

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion produces carbon monoxide and carbon dioxide. Unidentified organic compounds may be

MATERIALS AND CONDITIONS TO AVOID: Strong acids, strong alkalis, strong oxidizers.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools.

WAS LE DISPOSAL METHOD: Incinerate in approved facility. Do not incinerate closed containers. Dispose in accordance with local, state and federal regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Avoid breathing concentrated vapors or overspray particles if sprayed. In confined or poorly ventilated areas, use NIOSH approved mask with chemical canister or supplied air.

<u>VENTILATION</u>: Provide general mechanical ventilation or local exhaust ventilation sufficient to keep concentration of solvent vapors below <u>50</u> PPM

PROTECTIVE GLOVES: Use chemical resistant, impervious gloves for contact.

EYE PROTECTION: Safety goggles or face shield where splashes can occur.

OTHER PROTECTIVE EQUIPMENT:

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: ØFLAMMABLE ☐ COMBUSTIBLE

Keep in closed containers. Avoid sparks or flame when handling. Can be stored under ambient conditions. Keep closures tight and containers upright to prevent leakage.

OTHER PRECAUTIONS: Avoid contact with the skin. Use good personal hygiene practices. Wash hands thoroughly before eating/drinking/smoking/using toilet facilities.

Int tion of formaldehyde has been shown to cause cancer in laboratory animals.



MAIN CALL CHESTINAL OF

23000 ST. CLAIR AVE. • CLEVELAND, OHIO 44117 • 800-328-9745 EMERGENGY 24 HOUR CHEMTREC NO. 800-424-9300

Dept.

MATERIAL SAFETY DATA SHEET

07878

Identity WHITE TINT BASK				~~~~~~~~~	I		
MILLIC LIMI DUO	E ENAME!		Date	Prepared 호호 NFPA CO	/27/90 nc:	Date Revised	12/20/88
			HEALT			REACTIVITY:	1
	Section	II - H	laza	ardous	Ingrédi	ents	·
Hazardous Ingredients		SARA	313	CA9 _c ∦	, osha - pel	ACGIH TLV-TWA	Other Haza
ISOBUTYL ALCOHOL (ISOBUT) METHYL AMYL KETONE (2-HEPTANONE)	ANOL)			78-83-1 110-43-0 NIOSH - 465	100 PPM		FLAMMABLE COMBUSTIBLE
TITANIUM DIOXIDE XYLENE		Not >		13463-67-7 1330-20-7	15 MG/CUM 100 PPM	100 PFM	TOTAL DUST
ETHYL8ENZENE		Not >		100-41-4	100 PPM	M/10M; ACGIH STEL 100 PPM - 125 PPM	FLAMMABLE
BUTYL CELLOSOLVE (2-BUTOXYETHANOL)		Not >	15 %	111-76-2		25 PPM SKIN	COMBUSTIBLE
FORMALDEHYDE		Not >		5 0-00-0 NIOSH POTENTII		I PPM	STEL - 2 PPM
Secti	on III -	Physic	al	/Chemic	al Char	acteristi	.cs
Boiling Point		·		Specif	ic Gravity (H20		
	243-300 (DEG F				1.14	1
Vapor Pressure (mm Hg)	NOT DETER	RMINED			t Volatile lume (%)	65	
Vapor Density (AIR=Refer	rence) HEAVIER			Evapor (ETHER=Refe	ation Rate erence)	SLOWER	
Water Soluble	NO						
Appearance and Odor WHITE L	.iquid, mili	D ODOR					
Sect	ion IV -	Fire a	and	Explos	sion Haz	ard Data	
				Flannah	le Limits	LEL	VEL
Flash Point (Method User 79 DEG F TCC	d) 				ST VALUE	1.0	

RMETAL PROCESSING SYSTEMS



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MATERIAL SAFETY DATA SHEET

WHITE TINT BASE ENAMEL

07878

Section IV - Fire and Explosion Hazard Data Cont.

Unusual Fire and Explosion Hazards A STRAIGHT WATER STREAM WOULD SPREAD FIRES. STATIC ELECTRICITY COULD CAUSE IGNITION.

Section V - Reactivity Data

STABILITY

Unstable Conditions to Avoid

Stable * AVOID PROLONGED STORAGE AT ELEVATED TEMPERATURES.

INCOMPATIBILITY (Materials to Avoid)

STRONG OXIDIZERS, ALKALIES

Hazardous Decomposition Products

OXIDES OF CARBON, ACRID FUMES, ORGANIC CMPDS, ALDEHYDES, OTHER ORGANICS

HAZARDOUS POLYMERIZATION May Occur Conditions to Avoid

Will Not Occur # NONE

Section VI - Health Hazard Data

Primary Routes of Entry: Inhalation? * Skin? * Ingestion? *

Effects of Overexposure IRRITATING TO EYES, NOSE & THROAT. INHALATION
MAY CAUSE DIZZINESS, EXCITEMENT, DROWSINESS & STAGGERING GAIT. INGESTION
MAY CAUSE NAUSEA, VOMITING & ABDOMINAL PAIN. EXPOSURE TO HIGH LEVELS OF
VAPOR MAY CAUSE REVERSIBLE DAMAGE TO KIDNEYS & LIVER, SKIN RASH & REVERSIBLE
EYE DAMAGE. MAY CAUSE HEMOLYSIS & HEMOGLOBINURIA. TARGET ORGANS AFFECTED —
CNS, EYES, GI TRACT, BLOOD, LIVER, KIDNEYS & SKIN.

Medical Conditions Aggravated by Overexposure

NONE FOUND

Emergency and First Aid Procedures:

Eye (Contact): FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES AND CONTACT PHYSICIAN IMMEDIATELY.

Skin (Contact): WASH WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.

Ingestion (Ingestion): DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER AND/OR MILK. CONSULT PHYSICIAN IMMEDIATELY.

Inhalation (Breathing): REMOVE TO FRESH AIR. AID IN BREATHING IF NECESSARY AND GET IMMEDIATE MEDICAL ATTENTION IF NEEDED.

Section VII - Precautions for Safe Handling & Use

Steps to be taken in Case Material is Released or Spilled
WEAR APPROPRIATE PROTECTIVE EQUIPMENT. REMOVE IGNITION SOURCES. CONTAIN
SPILL. ABSORB WITH INERT MATERIAL AND DISPOSE.

METAL PROCESSING SYSTEMS

TRW-02751

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MATERIAL SAFETY DATA SHEET

WHITE TINT BASE ENAMEL

07878

Section VII - Precautions for Safe Handling & Use Cont.

Waste Disposal Method: DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions to be Taken for Handling and Storage DO NOT STORE OR USE
NEAR HEAT, SPARKS, OR FLAME. DO NOT STORE NEAR COMBUSTIBLE MATERIAL. DO NOT
STORE IN DIRECT SUNLIGHT. WHEN SANDING DRY FILM, USE NIOSH APPROVED DUST
MASK. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

Other Precautions SHOWERS AND EYE WASH FOUNTAINS SHOULD BE MADE AVAILABLE WHERE CHEMICALS ARE USED.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

USE NIOSH APPROVED EQUIPMENT WHEN AIRBORNE EXPOSURE LIMITS ARE EXCEEDED.

VENTILATION Local RECOMMENDED TO MAINTAIN BELOW TLV
Mechanical

Protective Gloves

NEOFRENE RUBBER

Eve Protection

SPLASH GOGGLES OR FACE SHIELD

Other Protective Clothing or Equipment

PROTECTIVE CLOTHING SUFFICIENT TO PREVENT SKIN CONTACT.

Work/Hygienic Practices

WASH THOROUGHLY BEFORE EATING, SMOKING OR USING TOILET FACILITIES.

Section IX - Additional Information

D.O.T. Proper Shipping Name: PAINT

D.O.T. Hazard Class: FLAMMABLE LIQUID

D.O.T. Identification #: UN-1263

TRW-02752

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE TO THE BEST OF THE SELLER'S KNOWLEDGE; HOWEVER, THE SELLER MAKES NO WARRANTY WHATSOEVER, EXPRESSED, IMPLIED, OR OF MERCHANTABILITY REGARDING THE ACCURACY OF SUCH DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. THE SELLER ASSUMES NO RESPONSIBILITY FOR INJURY TO THE BUYER OR TO THE THIRD PARTY PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND BUYER ASSUMES ALL SUCH RISK.



INDUSTEEL

Industrial Steel & Wire Co.

WAREHOUSE STOCK FOR METAL CONSUMING INDUSTRIES

HOME OFFICE/2222 N. SPRINGFIELD AVE. • CHICAGO, IL. 60647 • (AREA 312) 772-4848
TELEX NO. 253091

CABLE ADDRESS: INDUSTEEL CHICAGO
EAST WAREHOUSE / 32 VALLEY ST.

BRISTOL, CT. 06010
• (203) 589-7755
MID-WEST WAREHOUSE / 6334 CHALET DR. • CITY OF COMMERCE, CA. 90040 • (213) 928-0485

TRW FASTERNERS DIVISION 195 BEINEY STREET

CAMBRIDGE

MA 02142

Enclosed is a Material Safety Data Sheet (MSDS) covering the wire products you purchase from us.

Our wire products in their usual physical forms do not represent any health hazard, although subsequent operations such as welding, burning, grinding, cutting, abrasive blasting, heat treatment, pickling, etc., may produce potentially hazardous fumes or dusts.

We provide this information as general data, which should not be construed as a determination that our products are hazardous chemicals.

We will supply any future revisions that may become necessary.

Sincerely,

INDUSTRIAL STEEL & WIRE CO.

Harry Furlong Quality Control Manager

INDUSTRIAL STEEL & WIRE COMPANY

MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION:

Address: 2222 No. Springfield Avenue

Chicago, Illinois 60647

Telephone: (312) 772-4848

Date: April 21, 1986

1. PRODUCT IDENTIFICATIONS:

Steel Low Alloy Wires Stainless Steel Alloy Wires Copper Alloy Wires

2. TYPICAL CHEMICAL COMPOSITION:

The table on the following page covers materials contained in the products as shipped.

3 ⊕Mg/m units, in 8-hour time	ACGIH ILU *	OSHA PEL +	Permissible Air Level:	CAS Number	BERYLLIUM COPPER	PHOSPHOR BRONZE Alloy 510	Alloy 360	BRASS Alloy 260	17-7 STAINLESS STEEL	SIAJNLESS SIEEL	Chr. Silicon	Oil Temper	Hard Drawn	Music Wire	LOW ALLOY STEEL:	WIRE TYPE:	Z-A. I Y 1
in 8-hour	υī	10	ir lavel:	7439- 89-6	PER	ZE			S 74.0	EL 70.0	ח				EL: 95.0	IRON	P I C A L
ł	P	u		- 7439- 96-5						0.01-2.0					0.25-2.0	MAGANESE	Снеп
weighted overage concentrations.	0.05	0.1		6-44 -0464					16.0-18.0	17.0-20.0					0.5-10.0	CHRONIUN	1 C A L
age concent	Z D	N D		7740- -044					ò	Ö					0.01-1.2	CARBON	COMP
rations.	-	Þ		7740- 02-0					6.5-7.75	8.0-10.5					n)	NICKEL	01110
	0.2	0.1		7740- 58-0	97.0	95.0	60.0-63.0	68.5~71.5	J.	ŭ.					0.01~1.0	COPPER	N B Y
	S	'n		7440- 66-6			0 35.0	5 29.0								ZINC	E
	N	Ŋ		31-5		4.2-5.8										NII	G H T
	0.002	2002		7440- 41-7	1.8-2.0											BERYLL IUM	CELEBEN
	10	15		7439- 98-7			2.5-3.7									LEAD	I 5
	Ŋ	ru		7740- 21-3					T	RW	-02	275	5		1.2-1.6	SILICON	121
	ហ	ì		2-06 2458-					0.75-1.5							ALUM I NUM	
				2/2	None > 1.0%	Name > 1.0%		None > 1.0%	None > 1.0%	None > 1.0%					None > 1.0%	TRACE ELEMENTS	

Blank spaces above represent less than 1.0%.

2B. COATINGS:

METALLIC COATINGS:

Our customers may specify a metallic coating on certain wires:

	•		% We	ight	•	ssible Level
Type	Element	CAS Number	*Coating	% Product	OSHA PEL	ACGIH TLV
Cadmium Alloy	Cadmium Zinc	7440-43-9 7440-66-6	50 80	> 1% > 1%	0.1 5.0	0.1 5.0
Tin	Tin	7440-31-5	99.9	> 1%	5.0	5.0
Nickel	Nickel	7440-02-0	99.0	> 1%	1.0	1.0
Silver	Silver	7440-22-4	99.9	> 1%	0.01	0.1
Galvanized	Zinc	7440-66-6	99.0	> 1%	5.0	5.0

Note: Coatings are less than 1% of finished product.

NON-METALLIC COATINGS:

See Additional or Miscellaneous Information , Section 9.

3. PHYSICAL DATA:

Our products are solid metals in wire form.

4. FIRE AND EXPLOSION HAZARD DATA:

No hazard. Not combustible in air.

5. REACTIVITY:

Stability:

Stable.

Incompatibility: Avoid acids, bases or oxidizers.

0908-4141

Hazardous Decomposition Products: Fumes and/or gases produced from welding or burning operations.

Polymerization: Will not occur.

6. HEALTH HAZARD DATA:

USUAL ROUTE(S) OF ENTRY: Inhalation or skin contact.

EFFECTS OF OVEREXPOSURE: In the inert form, wire should not present any toxic effects. However, hazardous fumes or dusts may result during heating, grinding, cutting, welding, brazing, or related operations. Metallic and non-metallic coatings on the wire should be considered in the Additional and Miscellaneous Information section. Overexposure to wire fumes or dusts may cause the following adverse health effects:

Aluminum: No known health effect. Generally considered to be in the

nuisance dust category.

Beryllium: Irritation of skin, eyes, and mucous membranes. Excess

concentrations can cause a serious lung disease: berylliosis.

Potential cancer hazard.

Chromium: The dusts of chromium metal are usually reported to be

relatively non-toxic, although there are reports of a nodular type of pulmonary disease with impairment of lung function. Some insoluble chromium compounds are suspected carcinogens.

Copper: "Metal fume fever" - symptons may include cough, headache,

metallic taste in mouth, nausea, fever, chilling, pain in muscles and joints. This condition is transitory, usually

lasting one day or less.

Iron: Siderosis, no fibrosis.

Lead: Lead intoxication may result, with symptoms of anemia,

insomnia, weakness, constipation, neural and gastrointestinal

disorders.

Manganese: Pneumonitis, CNS involvement, including irritability, diffi-

culty in walking, speech disorders, complusive behavior,

mask-like face and a Parkinson - like syndrome.

Nickel: Respiratory irritation and pneumonitis. Several nickel

compounds, including nickel oxide, are suspected lung and

nasal carcinogens.

Silicon: May produce X-ray changes in the lungs without disability.

Tin: The toxicity of inorganic tin compounds is generally low.

Exposure to the dust or fumes of tin oxide can result in a benign pneumoconiosis called stannosis. No tissue reaction or pulmonary dysfunction has been associated with this lung

condition.

Zinc: Inhalation of zinc dust or zinc oxide fumes can cause a flu-

like illness called metallic fever.

FIRST AID PROCEDURES:

0908-4142

contact with surface coating. Seek medical advice.

TRW-02757

1. Inhalation: Move to fresh air, or well ventilated area. Seek medical advice.

2. Skin Contact: Wash affected area with soap and water, avoid further

Eye Contact: Irrigate well with clean water. Seek medical advice.

4. Ingestion: Normally N/A. Seek medical advice.

7. SPILL, LEAK, AND DISPOSAL INFORMATION

Steps To Be Taken in Case Material is Released or Spilled: N/A

Waste Disposal Method:

Any excess product can be recycled for further use, disposed in a permitted hazardous waste landfill, or disposed by other methods which are in accordance with local, state and federal regulations.

B. SPECIAL PROTECTION INFORMATION and SPECIAL PRECAUTIONS:

Respiratory Protection:

Use a properly fitted NIOSH-approved dust/fume respirator, when Engineering controls are not sufficient to lower exposure levels below the applicable exposure limit.

Ventilation:

Should be sufficient to maintain T.L.V. exposure levels below the applicable exposure limit.

Handling and Storage:

During welding, cutting, or grinding, precautions should be taken to control airborn particulate and fumes. Arc or spark generated when welding or burning on these products could be a source of ignition for combustible or flammable materials.

Eye Protection:

Safety glasses are strongly recommended.

Skin Protection:

Protective clothing and gloves are strongly recommended when handling any wire or wire parts.

9. ADDITIONAL OR MISCELLANEOUS INFORMATION:

Nonmetallic coating may be applied to the surface of steel wire. These are usually classified as protective coatings or lubricants. These are > 1% total weight of products, and may include:

- -rust preventative oils
- -zinc phosphate based coatings
- -mineral filled sodium soaps
- -lime filled calcium soaps

The possible presence of these coatings on steel products should be recognized and considered when evaluating potential employee health hazards and exposures during welding or other dust/fume generating activities.

TRW-02758

This document has been prepared solely for the intent of compliance with the provisions of Subpart 2 of Part 1910 of Title 29 of the Code of Federal Regulations, paragraph 1910.1200. INDUSTRIAL STEEL & WIRE CO., MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES ARISING FROM THE COURSE OF DEALING OR TRADE.



KELLEY WOOD PRODUCTS, INC.

109 River Street • Fitchburg, MA 01420-3093 • Tel (508) 345-7531 • Fax (508) 343-3070

to wood

June 1, 1994

AMERICAN ENGINEERED COMPONENTS CORP 265 THIRD ST CAMBRIDGE MA 02142

To You Our Valued Customer,

OSHA has wood dust on its list of hazardous materials in its Hazard Communication standard, set forth in Title 29 CFR Section 1910.1200. As a result, we are required by law to inform you of the potential dangers associated with exposure to wood dust. These potential dangers include possible skin and eye irritation, respiratory or other chronic or irreversible tissue damage, and narcosis of sufficient degree to increase the likelihood of accidental injury, impair self-rescue or materially reduce work efficiency. We want to emphasize that these potential maladies vary greatly according to wood species, type and level of exposure, and duration of exposure. Adequate ventilation and cleanliness in any woodworking area greatly reduces the incidence of any of these potential problems. The particulars of the hazards of wood dust and suggested handling methods are outlined in the enclosed updated Material Safety Data Sheet.

Very truly yours,

KELLEY WOOD PRODUCTS, INC.

Enclosure: 1 MSDS

15mg/m3

WOOD DUST, HARDWOODS & SOFTWOODS

Examples: Oak, Maple, Hickory, Beech, Poplar, Birch, Mahogany, Walnut, Ash, Pine, etc.; OHS88900

CERCLA RATINGS (Scale 0-3): Health = 3, Fire = 3, Reactivity = 0, Persistence = 0

NFPA RATINGS (Scale 0-4): Health = 3, Fire = 3, Reactivity = 0

COMPONENTS AND CONTAMINANTS

COMPONENT:

Wood Dust (General) Hardwoods, Softwoods, Special Note: Western Red Cedar

PERCENT:

100.0

EXPOSURE LIMITS: Hardwood & Softwood Dust

DUST - HARDWOOD & SOFTWOOD: 5mg/m3 ACGIH TWA - except Western Red Cedar 2.5mg

SPECIAL NOTE: "PEL" AND "TLV" LIMITS

The Eleventh Circuit of the U.S. Court of Appeals vacated the permissible exposure limits that OSHA issued January 19, 1989. They have ceased enforcement of the 1989 PELs and have reverted to enforcement of the previous limits.

The section in the federal register entitled Organic Dusts of the August 5, 1993 memorandum give specifics for the wood dust PEL. Wood dust will be regulated under the classification Particulates Not Otherwise Regulated (PNOR) and will have a PEL of 15mg/m3 as an eight hour weighted average.

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An explanation of the term Threshold Limit Value (TLV). This is the exposure limit recommended by a private professional association called the American Conference of Governmental Industrial Hygienists (ACGIH). These are recommended only and do not carry the weight of the law. HOWEVER, the Hazard Communication Standard requires that this TLV as well as the PEL be listed on your MSDS forms. At present, the TLV for hardwoods is one milligram per cubic meter (1mg/m3) of air and the TLV for softwoods is five milligrams per cubic meter (5mg/m3). Both of these is on the eight hour weighted average concentration.

EMERGENCY TELEPHONE NO.

(800) 424-9300 CHEMTREC

PHYSICAL DATA

DESCRIPTION: Dust of varying size, odor, texture and color.

FIRE AND EXPLOSION DATA

TRW-02760

FIRE AND EXPLOSION HAZARD: The finely divided wood dust presents a dangerous fire and explosion hazard when exposed to heat or flame. The larger dusts present a moderate to dangerous fire and explosion hazard when exposed to heat or flame.

CONDITIONS TO AVOID

Finely divided dusts may ignite easily. Larger dusts usually require longer exposure time to heat a flame before ignition occurs.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL: No special precautions indicated.

PROTECTIVE EQUIPMENT

VENTILATION: Provided local exhaust or general dilution ventilation. Ventilation equipment must be explosion-proof.

RESPIRATOR: The specific respirator selected must be based on the contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration. The following respirators are recommended based on the data found in the physical data, health effects and toxicity sections. They are ranked in order from minimum to maximum respiratory protection:

- * Dust mask, including single use.
- * Chemical cartridge respirator with an organic vapor cartridge(s) with dust filter.
- * Gas mask with organic vapor canister (chin style or front-or back-mounted canister) with a dust filter.
- * Type °C' supplied-air respirator operated in the pressure-demand or other positive pressure or continuous-flow mode.
- * Self-contained breathing apparatus.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: Self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode.

Supplied-air respirator with full face piece and operated in pressure demand or other positive pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.

CLOTHING: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this substance.

EYE PROTECTION: Employee must wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.

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FIREFIGHTING MEDIA: Dry chemical, carbon dioxide, water spray or foam (1984 emergency response guidebook, DOT P 5800.3). For larger fires, use water spray, fog or foam (1984 emergency response guidebook, DOT P 5800.3).

FIREFIGHTING: Move container from fire area if possible. Do not scatter spilled material with more water than needed for fire control. Dike fire control water for later disposal (1984 emergency response guidebook, DOT P 5800.3, Guide Page 31). Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

TOXICITY

Positive human carcinogen (IARC, NTP) (Furniture and cabinet making industry). An excess risk of nasal adenocarcinoma has been reported in workers in this industry. This excess risk occurs mainly in those that are exposed to wood dusts.

Some studies have suggested that the incidence of nasal cancers and Hodgkin's disease may be increased in workers in the lumber and sawmill (including logging), carpentry and joinery trades and the pulp and paper industries. Wood dust is an eye, skin and mucous membrane irritant and a skin sensitizer.

HEALTH EFFECTS AND FIRST AID

INHALATION: Irritant/ Sensitizer/ Carcinogen

Acute exposure, depending upon the species of tree, inhalation of wood dust may cause symptoms ranging form sneezing, coughing, rhinorrhea, fever, muscular aches and pains, labored breathing, nasopharyngitis, laryngitis, and bronchitis. The irritation caused by some wood dusts may cause sinus inflammation and nose bleeds. These symptoms have been attributed to an allergic type reaction and appear to be very species specific. Pulmonary sensitization to specific species has been documented. Pneumonitis or extrinsic allergic alveolitis may also occur among individuals that are susceptible to the wood dust. Studies have shown that this condition may be caused by the wood dust itself. There is the possibility that microorganisms inhabiting the wood may also be responsible for causing this condition in some individuals. Many of the more exotic woods have been reported to cause nausea and vomiting following inhalation; these woods have also been reported to cause dizziness, giddiness, and cardiac arrhythmias.

Chronic exposure, repeated or prolonged exposure, may result in asthma and/or rhinitis. Studies have shown that occupational asthma is the result of irritation of the dust. Many woods are composed of biologically active chemical agents and these agents may play a role in causing the asthma's. Cases of pulmonary fibrosis have been reported in individuals with long term exposure to wood dust. Nasal carcinomas, especially adenocarcinoma, have been documented in workers in the furniture and cabinet-making industries. This excess risk occurs mainly in those exposed to wood dust. An increase in Hodgkin's disease has been seen in other industries that are involved in woodworking, especially sawmills. Wood dusts appear to produce a mucostatic effect on the body. A study has suggested that this mucostatic action may be of importance in the development of nasal adenocarcinomas in furniture workers because of the prolonged retention of wood dust in the nasal cavity.

FIRST AID: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Get medical attention immediately.

2

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0908-4147

SKIN CONTACT: Irritant/ Sensitizer

Acute Exposure - All wood dusts have been implicated in causing irritation. This irritation may be the result of mechanical means and/or chemical agents. Mechanically caused irritation is the result of dust particles being a trapped in the clothes of the worker and producing abrasions. The chemical agents may cause contact dermatitis with redness, scaling, and itching. Severe cases may progress to blistering of the skin. The areas that are most often affected are the face, eyelids, hands and forearms. Splinters from some hardwoods may produce septic wounds that may take an extremely long time to heal.

Chronic exposure, repeated or prolonged exposure, may result in allergic dermatitis. Sensitization reactions may be mild with only erythema and irritation, but more often there is vesicular or papular dermatitis which may progress to chronic dermatitis.

FIRST AID: A thorough cleansing of the body, each day as a minimum, is necessary in the prevention of adverse reactions to wood dust. Any wound resulting from splinters or abrasions should be cleaned thoroughly. Splinters should be removed as quickly as possible by qualified medical personnel. If an infection from a splinter wound occurs, seek prompt medical attention. Remove and wash contaminated clothing at the end of each day.

EYE CONTACT: Irritant.

Acute exposure - Direct contact. with wood dust may cause irritation and inflammation. Mechanical damage of the cornea may also occur.

Chronic exposure, repeated or prolonged exposure, may cause conjunctivitis.

FIRST AID: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention immediately.

INGESTION: Acute exposure - No data available. Chronic exposure - No data available.

FIRST AID: Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration.

ANTIDOTE: No specific antidote. Treat symptomatically and supportively.

REACTIVITY -

REACTIVITY: Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Strong oxidizers: Fire and explosion hazard.

DECOMPOSITION: Thermal decomposition products may include toxic oxides of carbon.

POLYMERIZATION: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

USG INDUSTRIES, INC. 101 S. Wacker Drive Chicago, Illinois 60606 Emergency phone Day (312)321-4383 Night (312)321-4382

SECTION I

PRODUCT: DURON and DURATHRIFT Hardboard, Regular and Tempered, and/or coated CHEMICAL FAMILY: Wood Fiber (Mixture)

PRODUCT INGREDIENTS (As Required By 29 CFR 1910.1200)

MATERIALS:

TLV .

CAS #

7.

Wood Fiber Oil, vegatable 5mg/M³ 10mg/M³ None assigned 68956-68-3

97-99 1-3

SECTION III
PHYSICAL DATA

SOLUBILITY IN WATER: Nil

SPECIFIC GRAVITY $(H_20 = 1)$: 0.9 - 1.2

APPEARANCE AND ODOR: Tan to brown board, low odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None.

AUTOIGNITION TEMPERATURE: Variable. 390-500 OF

EXPLOSION LIMITS: Wood (saw) dust: Lower: 0.035 oz/ft3

Wood dust requires 0.040 Joules/minutes of energy for ignition and

can produce an explosion pressure of 113 psig max.

EXTINGUISHING MEDIA: Water, foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Wood dust is readily combustible. If saw dust is being produced from this product, it should be kept in a cool, dry place away from ignition sources. Hot, humid storage can result in spontaneous heating. Partially burned or scorched wood dust can be hazardous to store. Avoid contact with oxidizing agents and with drying oils.

USG INDUSTRIES, INC. 101 S. Wacker Drive Chicago, Illinois 60606

DATE ISSUED 11/11/85 Emergency phone Day (312)321-4383 Night (312)321-4382

SECTION I

PRODUCT:

USG Cant Strip Base
MARQUESA Building Board
Mobile Home MODULUX Ceiling Board
USG Building Board
USG Duplex Wallboard

USG Industrial Insulation Board
USG Mobile Home Ceiling Board
USG Sound Deadening Board

USG Coreboard

USG Structural Filler, Lisbon Falls

CHEMICAL FAMILY: Wood Fiber (Mixture)

SECTION II PRODUCT INGREDIENTS (As Required By 29 C.F.R. 1910.1200)

MATERIALS:	TLV	CAS #	7.
Wood Fiber	5mg/M ³	None assigned	85 - 98
Starch	10mg/H ³	09005-25-8	0.5 - 4.0
Clay	10mg/M ³	01332-58-7	None to 4.0
Titanium Dioxide	10mg/H ³	13463-67-7	None to 0.7
Calcium Carbonate	10mg/H ³	00471-34-1	None to 2.0

SECTION III PHYSICAL DATA

SOLUBILITY IN WATER: Nil

SPECIFIC GRAVITY $(H_20 = 1)$: 0.2 - 0.3

APPEARANCE AND ODOR: Brown colored board, low odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None.

AUTOIGNITION TEMPERATURE: Variable. 390-500 OF

EXPLOSION LIMITS: Wood (saw) dust: Lower: 0.035 oz/ft3

Wood dust requires 0.040 Joules/minutes of energy for ignition and can

produce an explosion pressure of 113 psig max.

EXTINGUISHING MEDIA: Water, foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Wood dust is readily combustible. If saw dust is being produced from this product, it should be kept in a cool, dry place away from ignition sources. Hot, humid storage can result in spontaneous heating. Partially burned or scorched wood dust can be hazardous to store. Avoid contact with oxidizing agents and with drying oils.

0908-4150

USG INDUSTRIES, INC. 101 S. Wacker Drive Chicago, Illinois 60606

DATE ISSUED 11/11/85 Emergency phone Day (312)321-4383 Night (312)321-4382

SECTION I

PRODUCT: CARLISLE HP Recovery Board CHEMICAL FAMILY: Wood Fiber (Mixture)

SECTION II

, PRODUCT INGREDIENTS

(As Required by 29 CFR 1910.1200)

MATERIALS:

TLV

CAS #

Wood Fiber Asphalt

5mg/H³ 5mg/M³(fumes) None assigned

92 - 93

08052-42-4

7 - 8

' SECTION III PHYSICAL DATA

SOLUBILITY IN WATER: Nil

SPECIFIC GRAVITY $(H_20 = 1): 0.2 - 0.3$

APPEARANCE AND ODOR: Brown to black colored board, low odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None.

AUTOIGNITION TEMPERATURE: Variable. 390-500 OF

EXPLOSION LIMITS: Wood (saw) dust: Lower: 0.035 oz/ft3

Wood dust requires 0.040 Joules/minutes of energy for ignition and can produce

an explosion pressure of 113 psig max.

EXTINGUISHING MEDIA: Water, foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Wood dust is readily combustible. If saw dust is being produced from this product, it should be kept in a cool, dry place away from ignition sources. Hot, humid storage can result in spontaneous heating. Partially burned or scorched wood dust can be hazardous to store. Avoid contact with oxidizing agents and with drying oils.

SECTION V HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ACUTE: None known

CHRONIC: None known

EMERGENCY AND FIRST AID PROCEDURES:

EYES:

Flush saw dust from eyes with water. If irritation

persists see physician.

SKIN:

Wash with soap and water.

INHALATION: Remove from exposure

INGESTION: Call physician

0908-4151

USG INDUSTRIES, INC. 101 S. Wacker Drive Chicago, Illinois 60606

DATE ISSUED 11/11/85
Emergency phone Day (312)321-4383
Night (312)321-4382

SECTION I

PRODUCT:

USG Cant Strip Base, Asphalt Impregnated

USG Industrial Insulation Board, Impregnated and/or coated

and/or primed

USG Mobile Home Sheathing, Asphalt Impregnated and/or coated

USG Roof Insulation, Asphalt Impregnated and/or coated

USG Roof Leveling Board, Asphalt Impregnated USG Shingle Backer Board, Asphalt Impregnated USG Structural Filler, Asphalt Impregnated

USG WEATHERWOOD Sheathing, Asphalt Impregnated and/or coated

STRUCTODEK Roofing Substrate, Asphalt Impregnated

USG Roof Deck, Asphalt Impregnated USG Structural Filler, Pilot Rock

CHEMICAL FAMILY: Wood Piber (Mixture)

SECTION II PRODUCT INGREDIENTS (As Required By 29 CFR 1910.1200).

MATERIALS:		TLV	CAS #	%
Wood Fiber		5mg/M ³	None assigned	70 - 90
Asphalt		Smg/M ³ (fumes)	08052-42-4	0.5 - 30
Starch		10mg/M ³	09005-25-8	0.5 - 1.5
Clay		10mg/M ³	01332-58-7	None to 4
Titanium Dioxide		10mg/M ³	13463-67-7	None to 1.2
Calcium Carbonate	•	10mg/M ³	00471-34-1	None to 3.5

SECTION III PHYSICAL DATA

SOLUBILITY IN WATER: Nil

SPECIFIC GRAVITY $(H_20 = 1)$: 0.2 - 0.3

APPEARANCE AND ODOR: Brown to black colored board, low odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None.

AUTOIGNITION TEMPERATURE: Variable. 390-500 OF

EXPLOSION LIMITS: Wood (saw) dust: Lower: 0.035 oz/ft3

Wood dust requires 0.040 Joules/minutes of energy for ignition and can produce

an explosion pressure of 113 psig max.

EXTINGUISHING MEDIA: Water, foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Wood dust is readily combustible. If saw dust is being produced from this product, it should be kept in a cool, dry place away from ignition sources. Hot, humid storage can result in spontaneous heating. Partially burned or scorched wood dust can be hazardous to store. Avoid contact with oxidizing agents and with drying oils.

Health	1
Fiammability	1
Reactivity	0
Personal Protection	В

BOWMAN DISTRIBUTION MATERIAL SAFETY DATA SHEET

Health	1
Flammability	0
Reactivity	0
Specific Hazard	

HMIS Ratings

SECTION I

NFPA Ratings PRODUCT NAME BOWMAN PART NO. WOODF 22021 (page 1 of 2) EMERGENCY TELEPHONE NO. SUPPLIER Bowman Distribution, Barnes Group Inc. (216) 000 FEEF DATE 850 East 72nd Street, Cleveland, OH 44103 11/17/89 HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) Non-hazardous, Not regulated ADDITIONAL HAZARD CLASSES (as applicable) N.A. CHEMICAL FAMILY **FORMULA Mixture Epoxy & polymercaptan resins**

SECTION II - HAZARDOUS INGREDIENTS

CAS REGISTRY NUMBER	%W	%V	CHEMICAL NAME(S)	OSHA PEL	ACGIH TLV	Other Limits	Listed as Carcinogen NTP, IARC or OSHA 1910(z) (specify)	
90-72-2	1.5		Tris (dimethylaminomethyl) phenol	5 ppm	NE	=	No	
25068-38-6	21		Diglycidylether of bisphenoi A	NE	NE	19.8 g/kg. No		
						oral LD50		
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-								
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ALL CHEMICAL COMPOUNDS MARKED WITH AN ASTERISK () ARE TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372.

SECTION III - PHYSICAL DATA

BOILING POINT N.A.	SPECIFIC GRAVITY (H ₂ O = 1)	0.9		
VAPOR PRESSURE @°F°Cmm Hgpsi N.A.	PERCENT VOLATILE BY VOLUME (%)	0	WEIGHT (%)	100
VAPOR DENSITY (AIR = 1)	EVAPORATION RATE (Ether = 1)	nii	·	
SOLUBILITY IN WATER nil	PH =	N.A.		
APPEARANCE AND ODOP			MATERIAL IS: PASTE	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	method used	FLAMMABLE LIMITS	LEL	UEL
None°F°C	N.A.		None	None
EXTINGUISHING MEDIA Water spray, foam, carbon dioxide, dry chen	nicals.			
SPECIAL FIRE FIGHTING PROCEDURES	e 13	:		
None				
,		-		
UNUSUAL FIRE AND EXPLOSION HAZARDS Hazardous combustion products could inclu		organic acids & aldehydes, oxi	des of sulfur & nitroger	n.

22021 (page 1 of 2) N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined

TRW-02768

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SECTION V - HEALTH HAZARD DATA

HEALTH HAZ	ARDS (ACI	ITE ANI	CHRONIC	- INCL	IDE TAR	GET ORG	AN FEFE	TSI				
May cause sk	in and eye	irritatio	n in sensitiv	re indiv	iduals. (hronic ov	erexposur	e migh	t cause sensit	ization or d	ermatitis.	
CONDITIONS	TO AVOID											
Prolonged ski			. Do not ing	est.								
		·										
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SIGNS AND S				RE								
PRIMARY RO				\top	Skin Co	ntact X	Other (specify))			
				<u>_</u>					Eye co	ntact.		
EMERGENCY For skin cont				_	ontect f	luch with :	water & co	neult n	hysician if irri	etion nerei	iete	
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MEDICAL CO Dermatitis.	NULLIONS	AGGRA	ANIED BA E	XPOSL	HE							
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	UNSTABL	-=	CONDITION None	15 10 /	WOID							
STABILITY	STABLE		110116									
	0	X										
INCOMPATIB	LITY (mate	rials to a	ivoid)	·								
None HAZARDOUS	DECOMB	SCITION	DDODUCT									
Organic acids				•	trogen.	carbon mo	noxide.					
		MAY O		T		ITIONS TO						
HAZARDOUS POLYMERIZA					None				t.			
FOLTWIENIZA	ATION	WILL	IOT OCCUR	Х					· 			
		<u> </u>								•		
			SECT	ION	VII - S	PILL C	R LEA	K PR	OCEDUR	ES		
STEPS TO BE	TAKEN IN	CASE	MATERIAL IS	RELE	SED OF	SPILLED				·		
Not hazardou	s to perso	nnel or t	ne environ	nent. D	spose o	in norma	ı mariner.		-			
	,										·	
WASTE DISP Incinerate or			ording to a	ndicab	e regula	tions.	-					
	July III III		g	- P.1.0							 	
CERCLA (Sur	perfund) BE	PORTA	RI E OLIANT	TV (in I	he \							
None `		-		`								
RCRA HAZAF None	RDOUS WA	STE NO). (40 CFR 20	31.33)				-	٠		•	
	201110		10.0000									
VOLATILE OF as packaged.			AD (AOC)		heoretic	ai	lb/gal	None	·			
		•			Analytical	l	lb/gal	None	•			
			ECTION	1/101	CDE	CIAL D	DOTEC	TIAI	N INEODA	IATION		
RESPIRATOR	Y PROTEC	C NAOTE	ECTION	AIII	- SPE	CIAL P	HOIEL	,1101	N INFORM	AHUN		
RESPIRATOR None require	d	Val.	Journ Spor									
-		13.7			••					***		•
	ILOCA		JST (specify	rate)					SPECIAL			
VENTILATION	Not re	quired							None			
	MECH Not re	ANICAL guired	(general) (st	ecify ra	te}				OTHER None			
PROTECTIVE	GLOVES (specify t	ype)_	<u> </u>			OTECTION	N (spec		 		
Polyethylene OTHER PROT	for prolong	ged use	MT			Glasse	3					
None required		ZUITME	141									
			6	ECTI	ON IV	- CDE	TAL DI	BEC/	AUTIONS			
PRECAUTION	IS TO BE T	AKEN IN	DI HANDI ING	AND S	TORING	- 3PE	JIAL PI	150/	-0110113			
Avoid eye co	ntact and	xcessiv	e skin cont	ect.		·						
OTHER PREC											TRW-027	769
Wash hands			er immediat	ely afte	r use.	-					11044-02/	.
l												
												C-2/8

22021 (page 2 of 2)

N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined BOWMAN DISTRIBUTION, BARNES GROUP INC. 850 East 72nd Street, Cleveland, Ohio 44103 y Telephone No. (216) 391-7230